40TH CONGRESS, 3d Session. } HOUSE OF REPRESENTATIVES. { Ex. Doc No. 52.

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ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS,

FOR

THE YEAR 1868.

283730
FEB 17

VOLUME IV.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1869.

IN THE HOUSE OF REPRESENTATIVES,

April 9, 1869.

Resolved by the House of Representatives, (the Senate concurring,) That there be printed thirty thousand extra copies of the next Report of the Commissioner of Patents, of which seventeen thousand shall be for the use of the House, eight thousand for the use of the Senate, and five thousand for the use of the Commissioner of Patents.

Attest:

EDW. McPHERSON, *Clerk.*

IN SENATE OF THE UNITED STATES,

December 9, 1869.

Resolved, That the Senate agree to the resolution of the House of Representatives relative to printing the Report of the Commissioner of Patents.

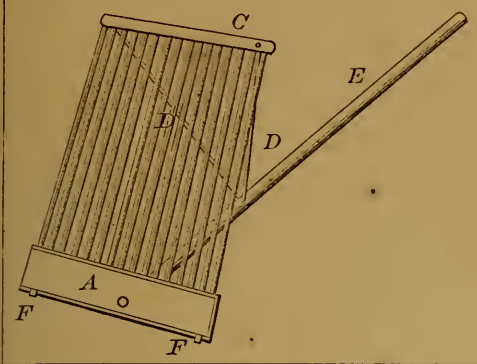
Attest:

GEO. C. GORHAM, *Secretary.*

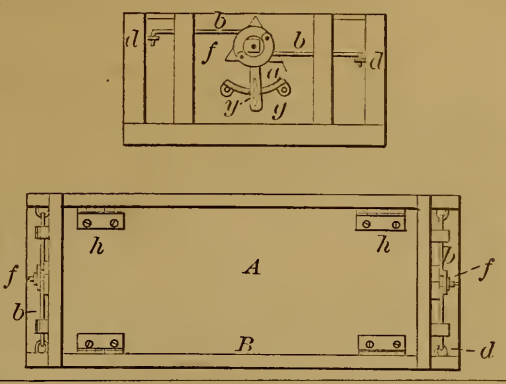
08;73

ILLUSTRATIONS OF PATENTS.

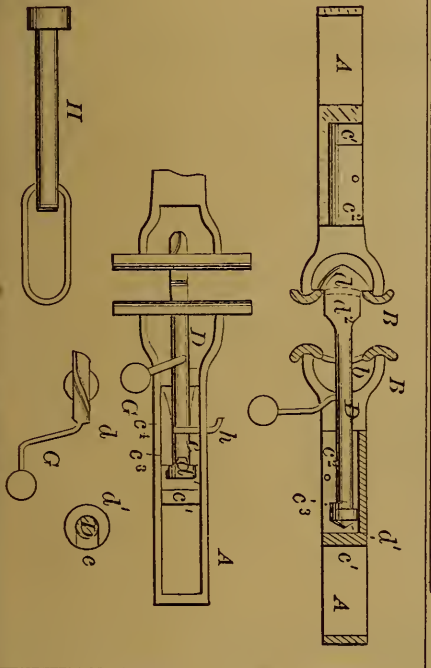
79250—E. A. Palmer—*Cheese Curd Rake.*



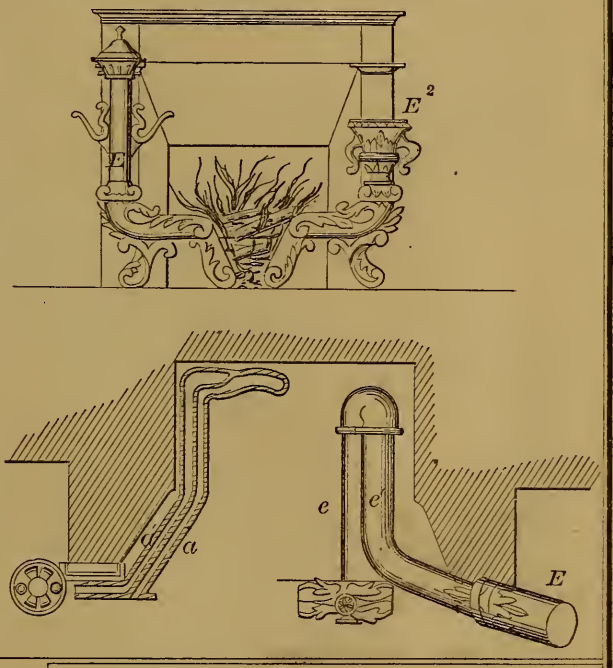
79251—H. Parker—*Wagon Box.*



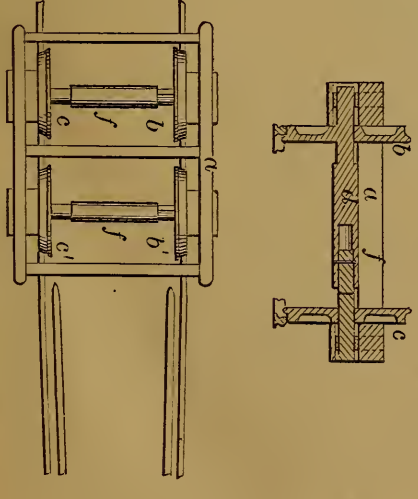
79254—A. Perrin—*Car Coupling.*



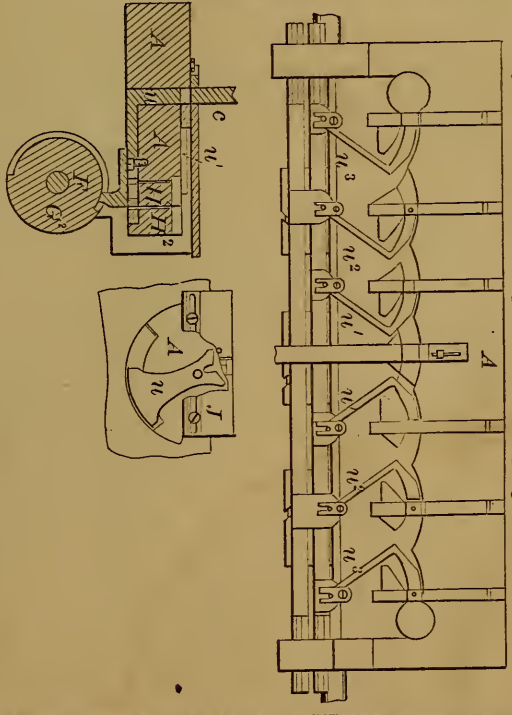
79253—F. Passy—*Andirons and Fireplace.*



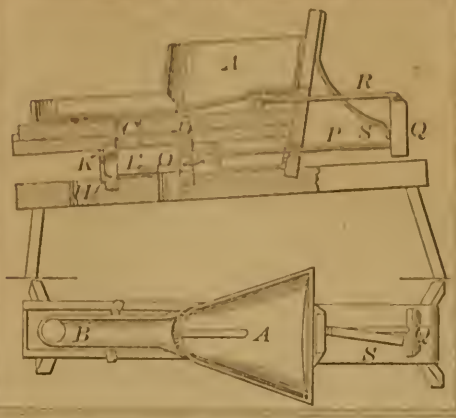
79252—W. P. Parrott—*Railway Truck.*



79255—Plant & Shepard—*For Forging Nuts.*



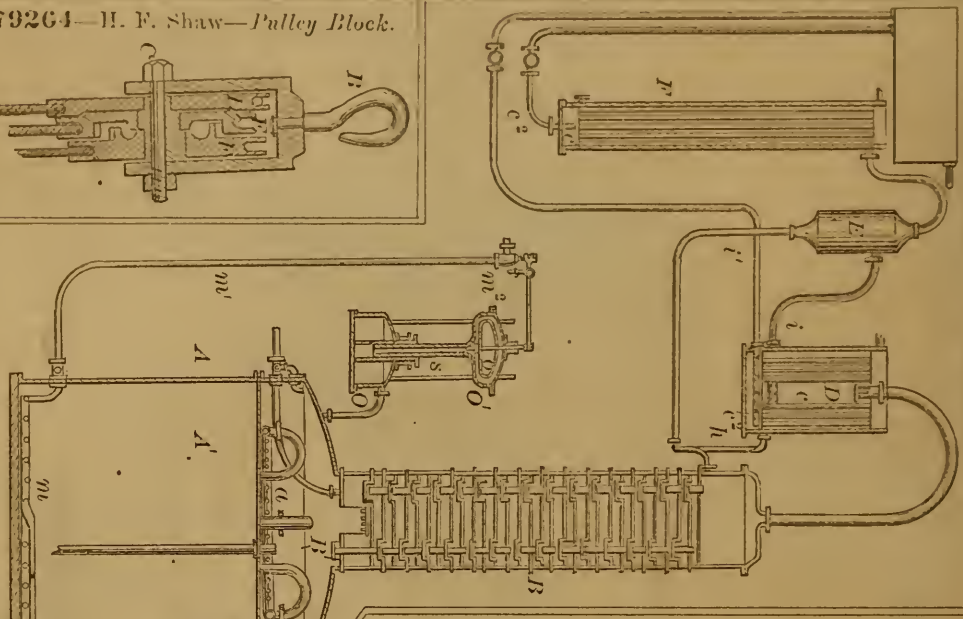
79257—A. Rakestraw—*Cherry Stoner.*



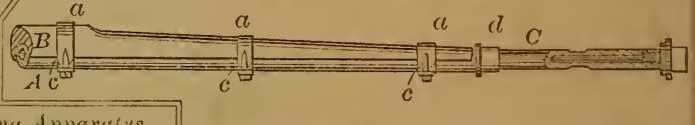
79259—J. B. Rumsey—*Coat Rack.*

79264—H. F. Shaw—*Pulley Block.*

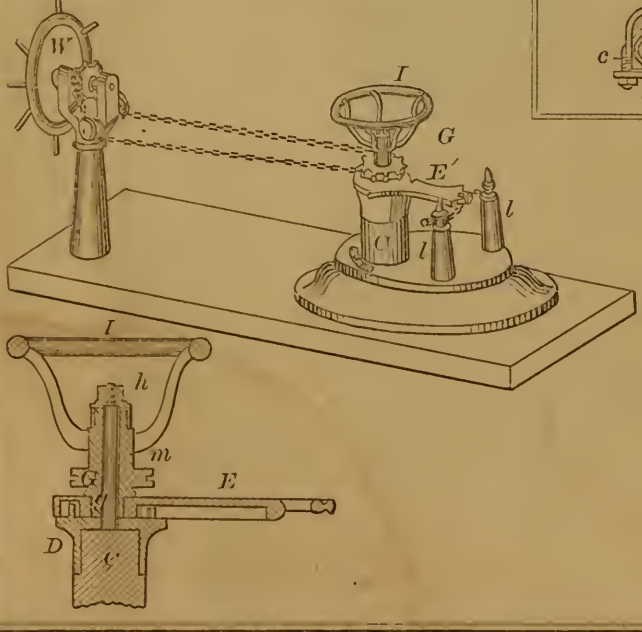
79260—D. Savalle—*For Distilling.*

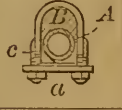


79258—T. C. Ricc—*Tubular Axle.*

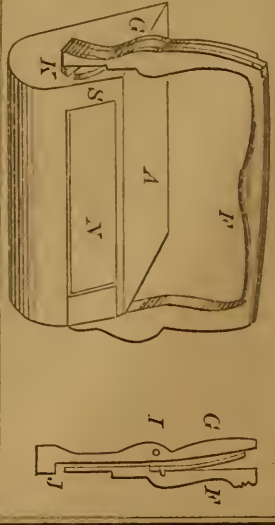


79263—H. F. Shaw—*Steering Apparatus.*

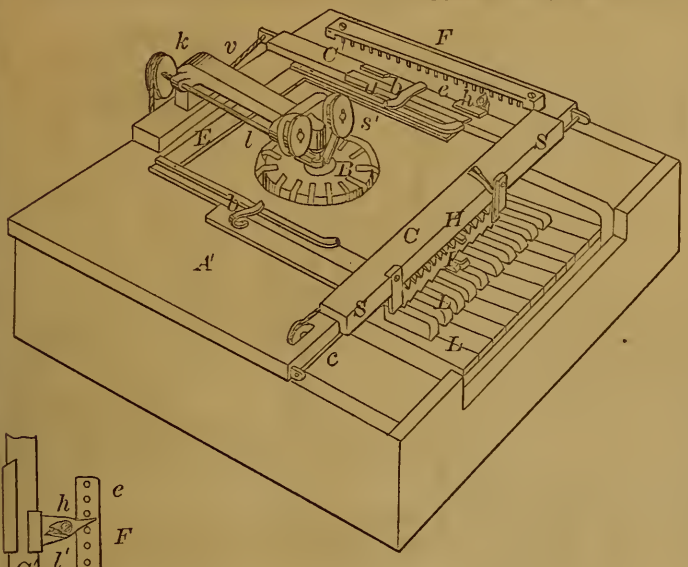


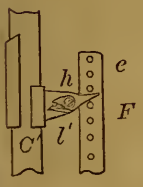


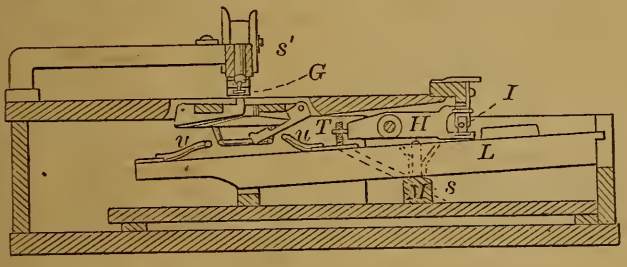
79262—J. Shalkenback—*Sad Iron.*

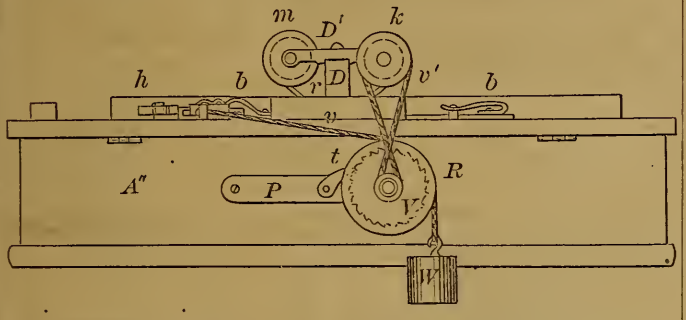


79265—Sholes, Glidden & Soule—*Type Writing Machine.*

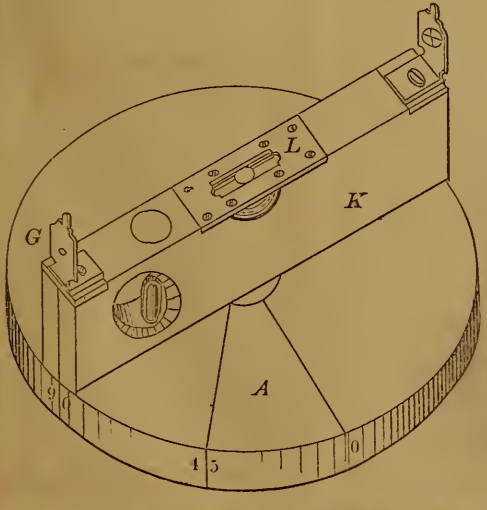




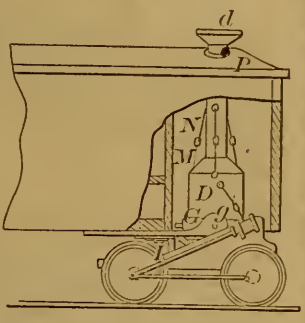


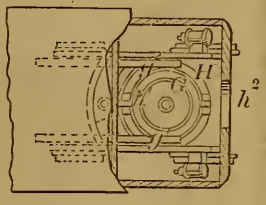


79266—J. D. Sibley—*Spirit Level.*



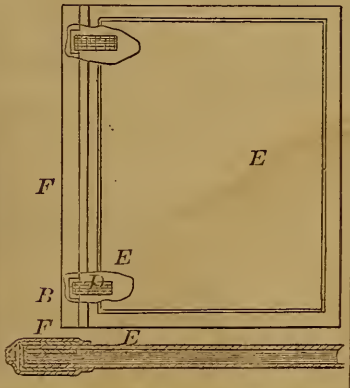
79267—S. Skillman—*Car Truck.*





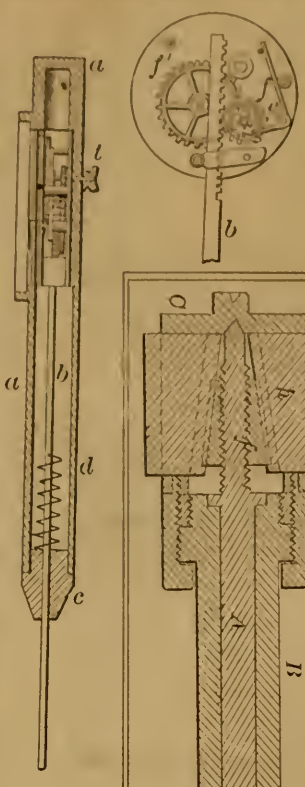
79268—H. J. Smith—*Electric Fuse.*

79269—W. Smith—*Book Binding.*

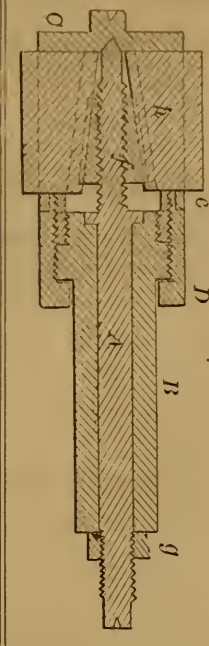


79270—Snow & Lewis—*Dental Plugging Instrument.*

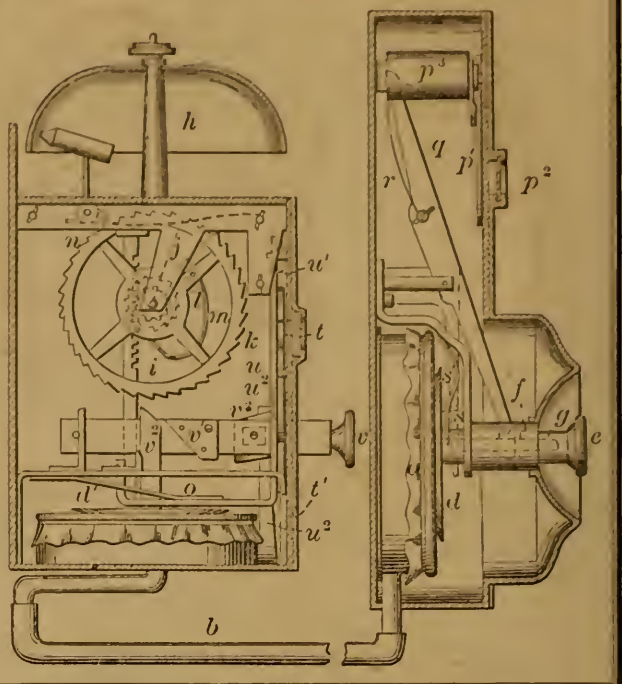
79272—Spofford & Corliss—*For Adding and Registering Numbers.*



79276—E. Sullivan—*Reamer.*

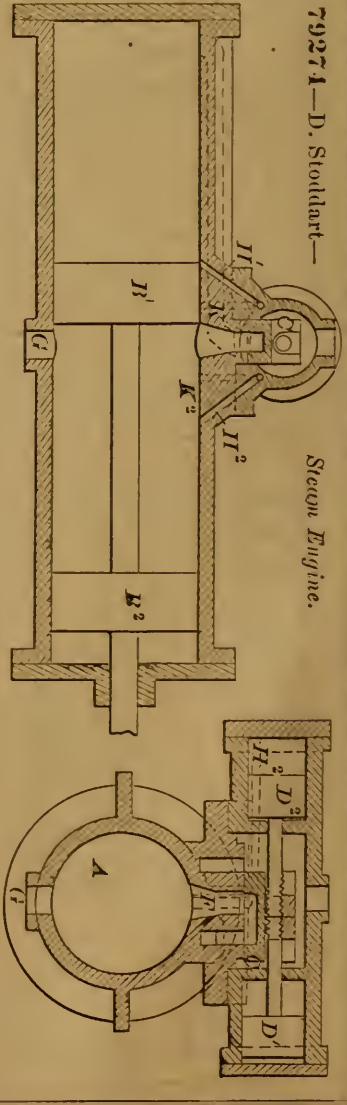


79271—P. A. Sparre—*Transmitting Signals.*

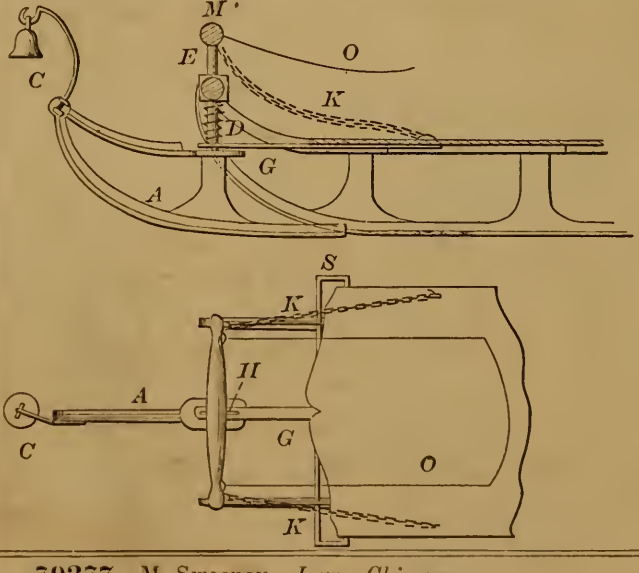


79278—Taggart & Brown—*Hat.*

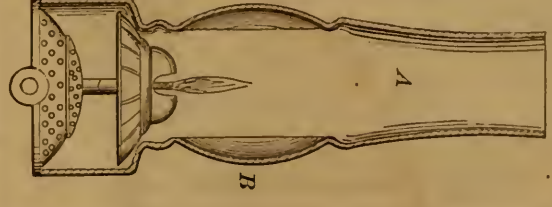
79274—D. Stoddart—*Steam Engine.*



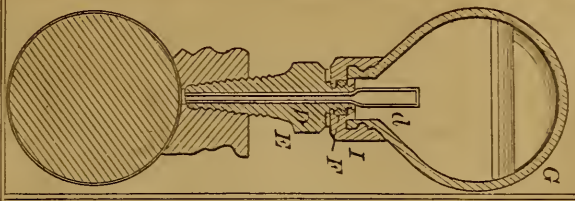
79273—E. L. Stevens—*Sled.*



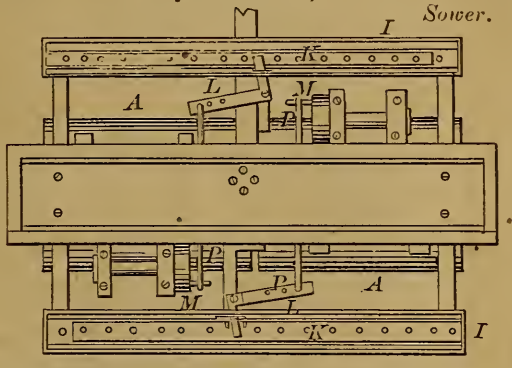
79277—M. Sweeney—*Lump Chimney.*



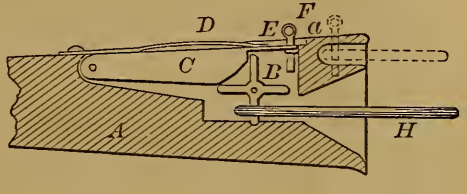
79279—H. Taylor—*Lubricator.*



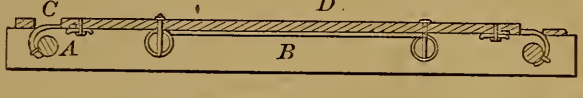
79280—L. D. Taylor—*Roller, Fertilizer and Seed Sower.*



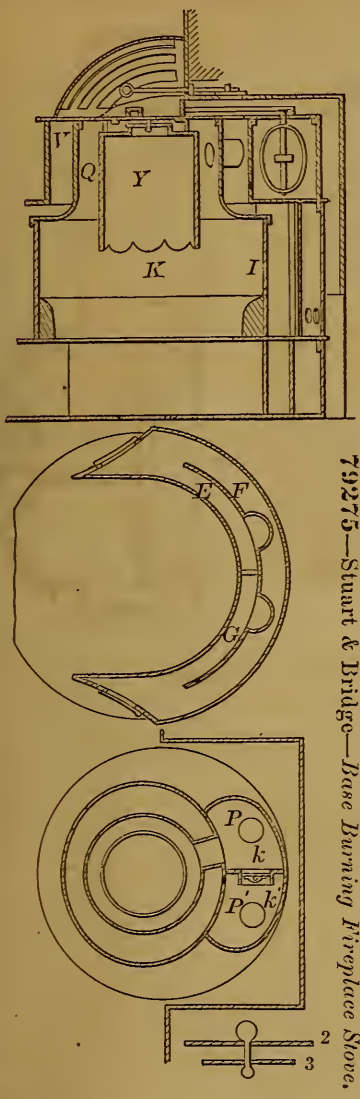
79283—E R. Whitney—*Car Coupling.*



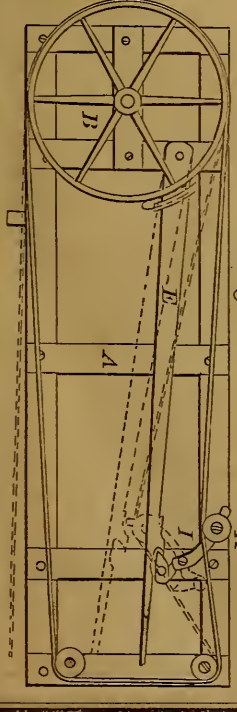
79285—N. J. Willis—*Spring Bed Bottom.*



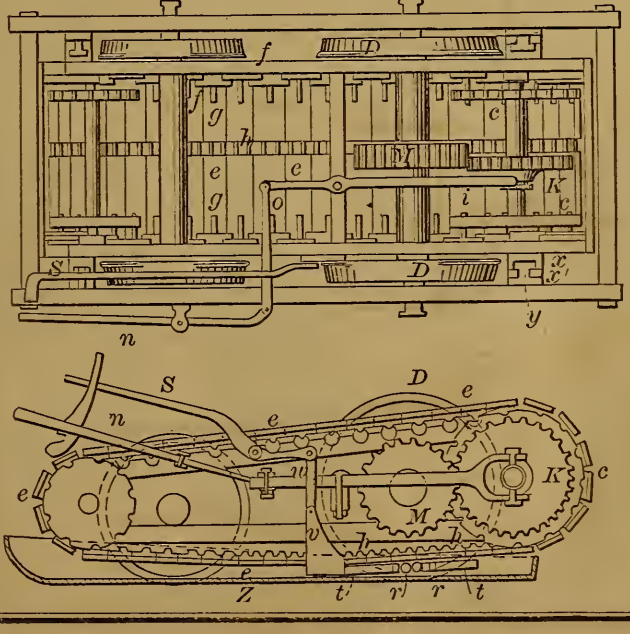
79275—Stuart & Bridge—*Base Burning Fireplace Stove.*



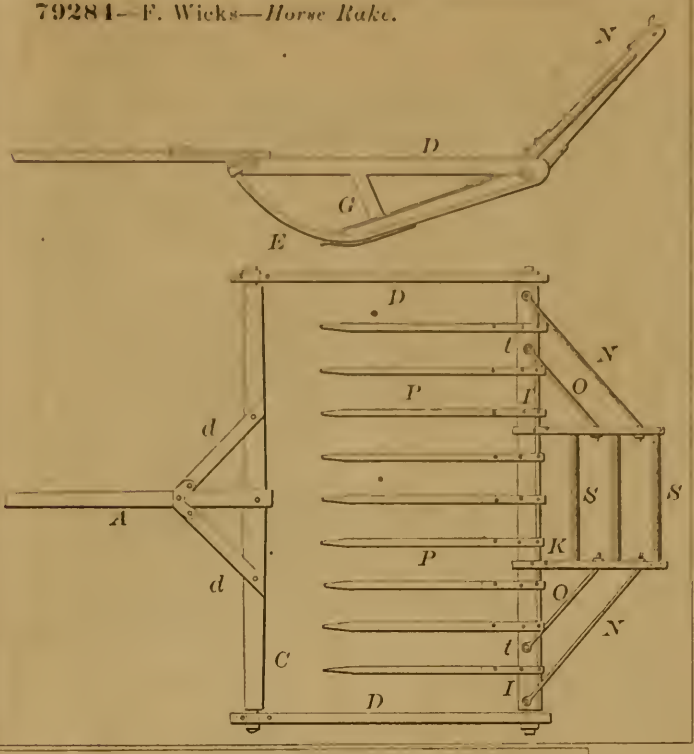
79281—D G. Terrell—*Brake for Horse Power Machines.*



79282—D J. Tittle—*Horse Power.*

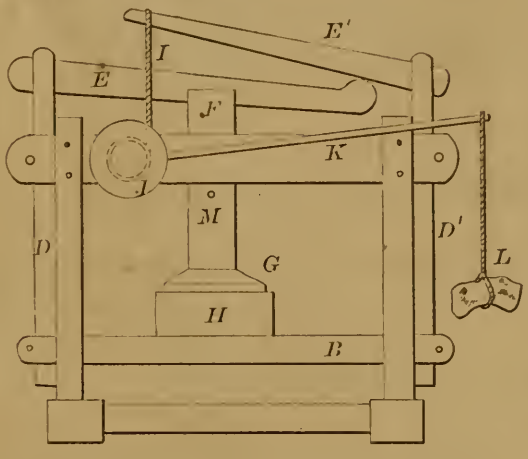


79284—F. Wicks—*Horse Rake.*

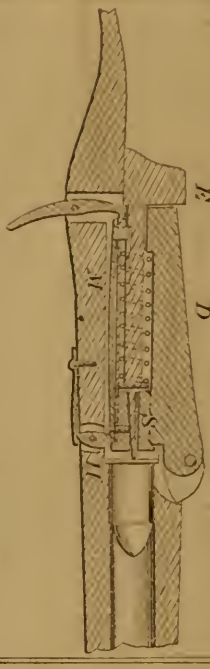


79288—J. H. Zinn—*Line Holder.*

79286—P. Wilson—*Cheese Press.*

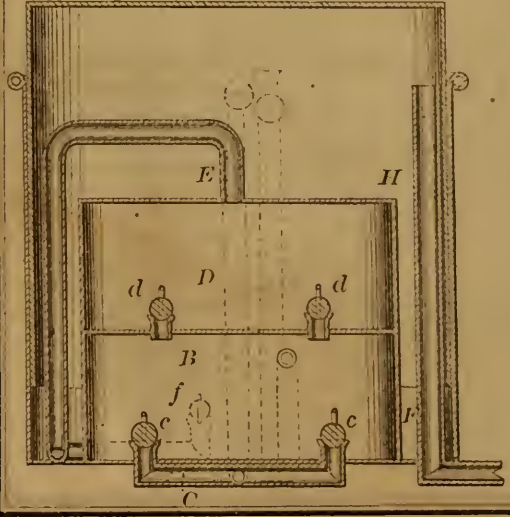


79291—W. Morgenstern—*Fire Arm.*

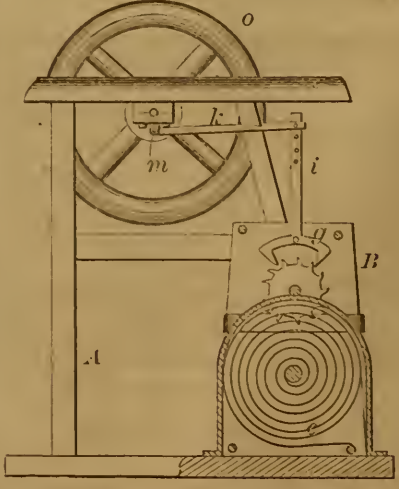


79287—Wright & Orr—*Tag.*

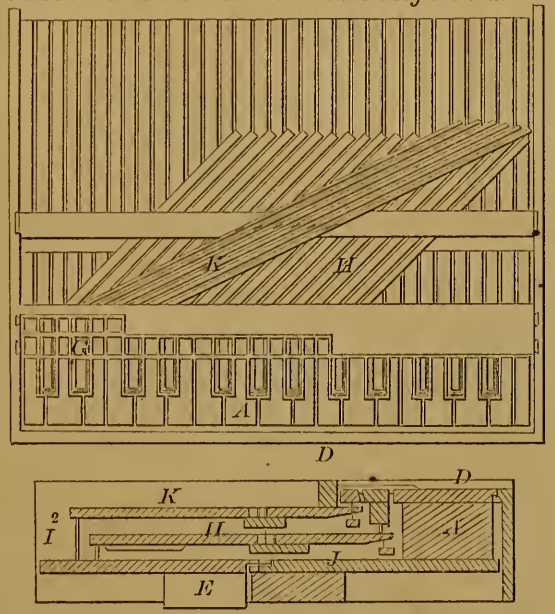
79290—C. B. Willoughby—*Carburetter.*



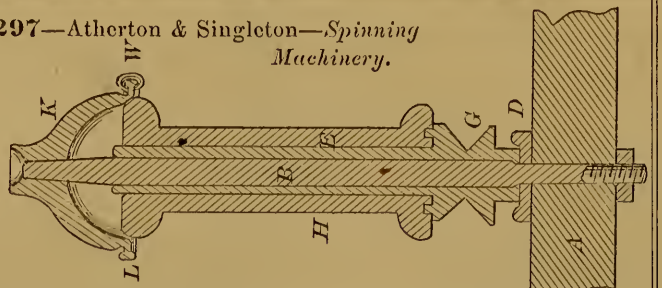
79289—S. G. Monce—*For Motive Power.*



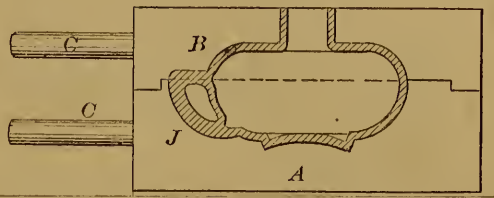
79295—Allen & Wilkins—*Piano Key Board.*



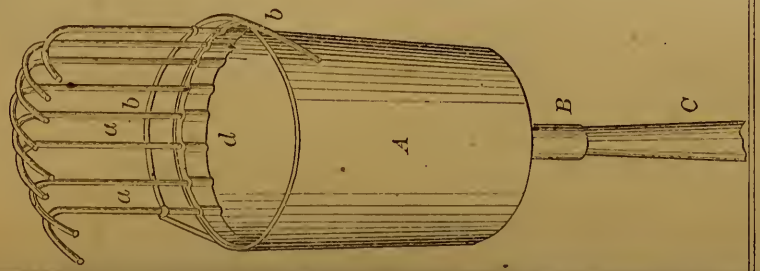
79297—Atherton & Singleton—*Spinning Machinery.*



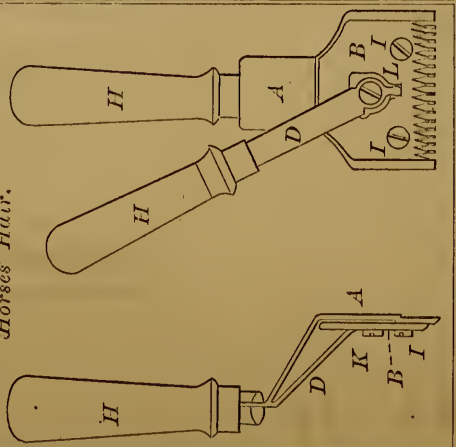
79298—J. S. & T. B. Atterbury—*Manufacturing Glassware with Handles.*



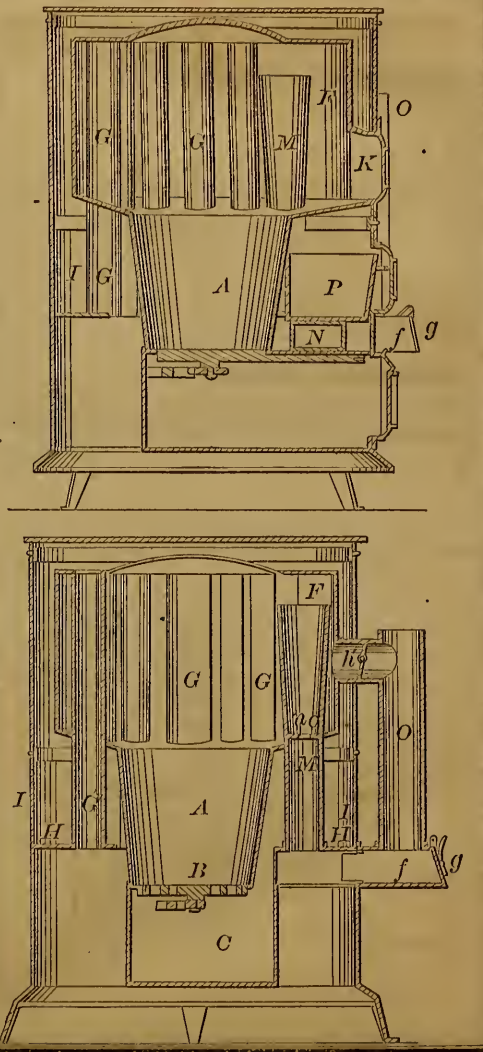
79292—J. H. & D. A. Lament—*Fruit Picker.*



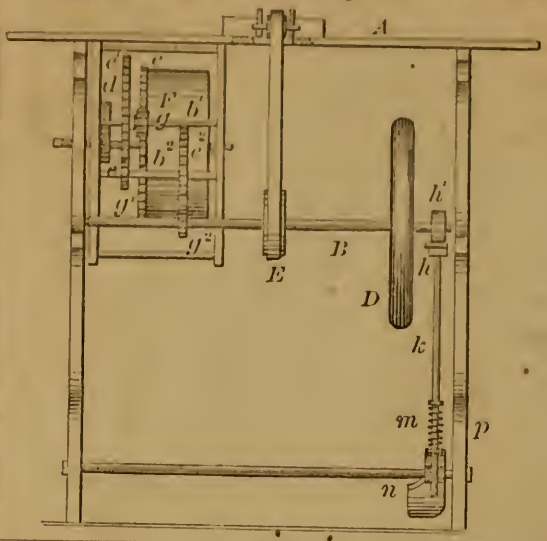
79293—P. Adie—*For Clipping Horses' Hair.*

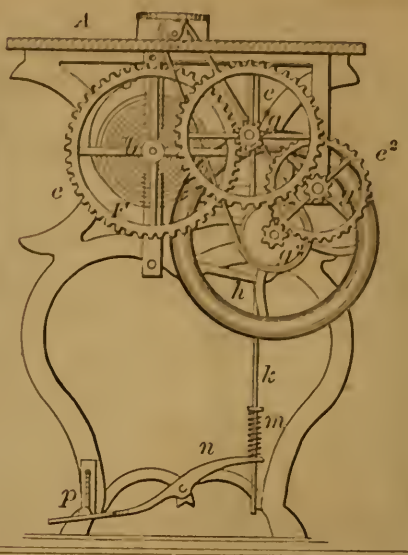


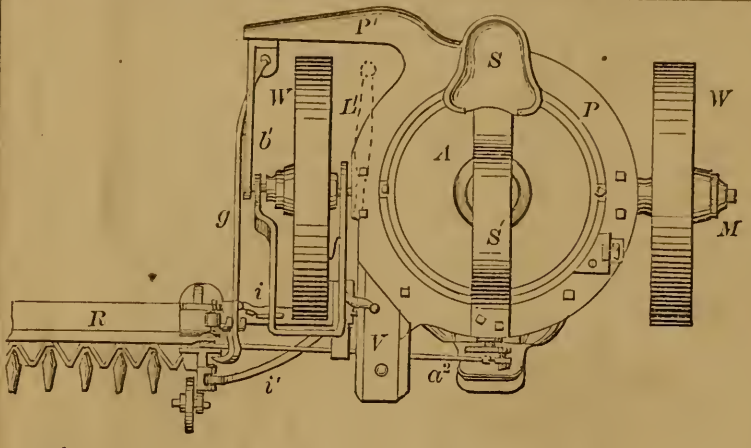
79294—J. Albee—*Hot Air Furnace.*



79296—A. Q. Allis—*Sewing Machine Treadle.*

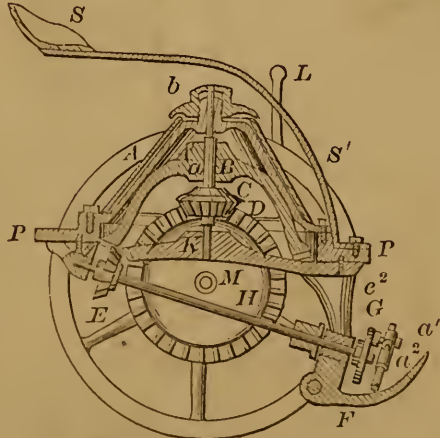






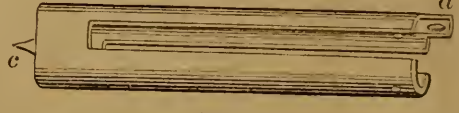
79299—D. Avery—*Whip.*

79300—D. Babcock—*Harvester.*

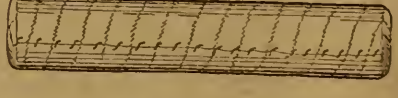


79302—H. Beyrodt—*Bed Spring.*

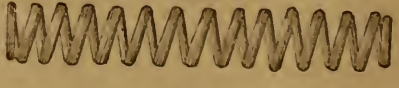
No. 3



No. 4



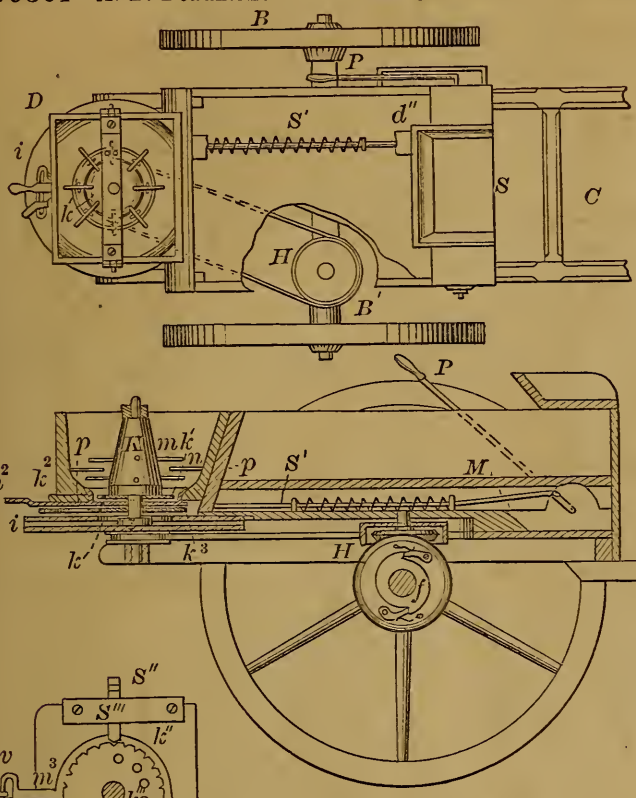
No. 5



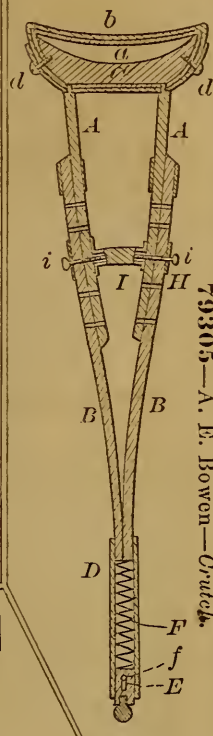
No. 6

79303—J. B. Blair—*Ornamenting Glass Signs.*

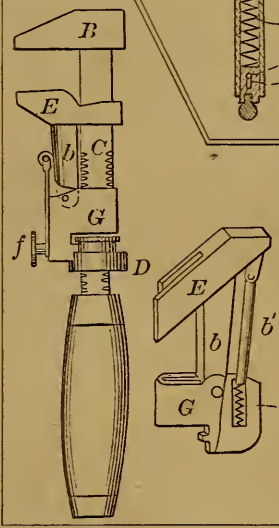
79301—A. B. Beaumont—*Broadcast Sower.*



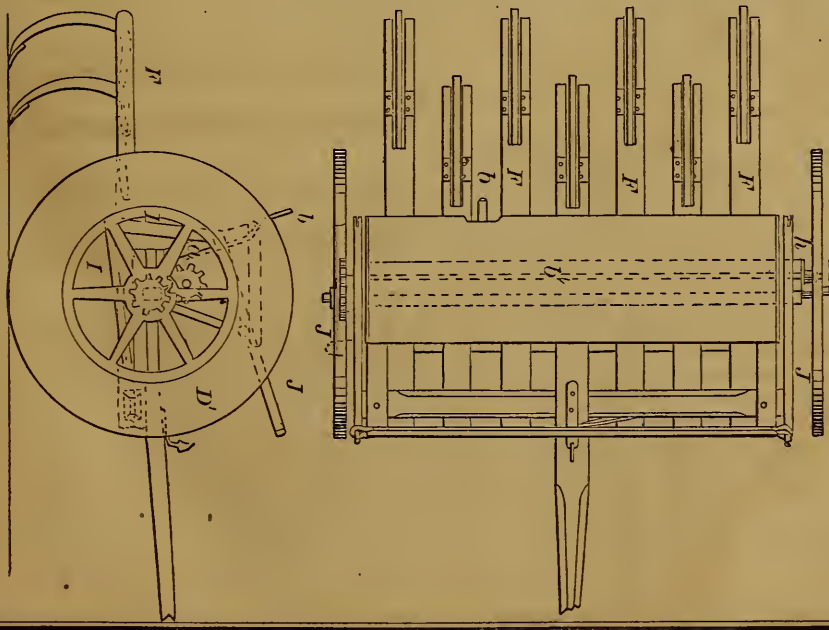
79305—A. E. Bowen—*Crutch.*



79306—Bradshaw & Lyon—*Wrench.*

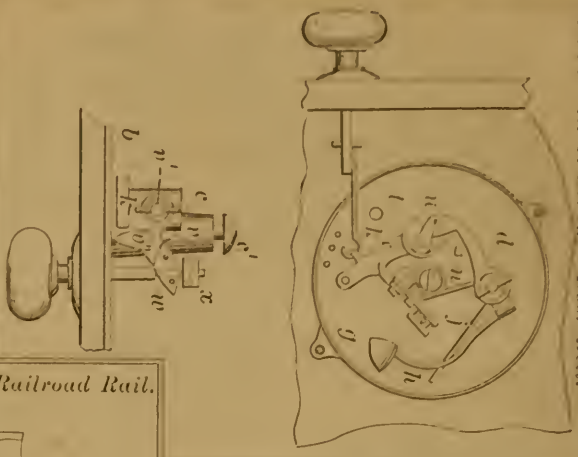


79304—Blood, Hathaway & Beach—*Cultivator.*

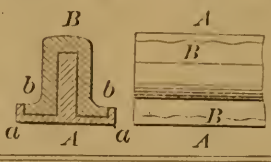


79307—J. B. Breathitt—*Nail Extractor.*

79308—A. T. Brooks—*Door Bell.*

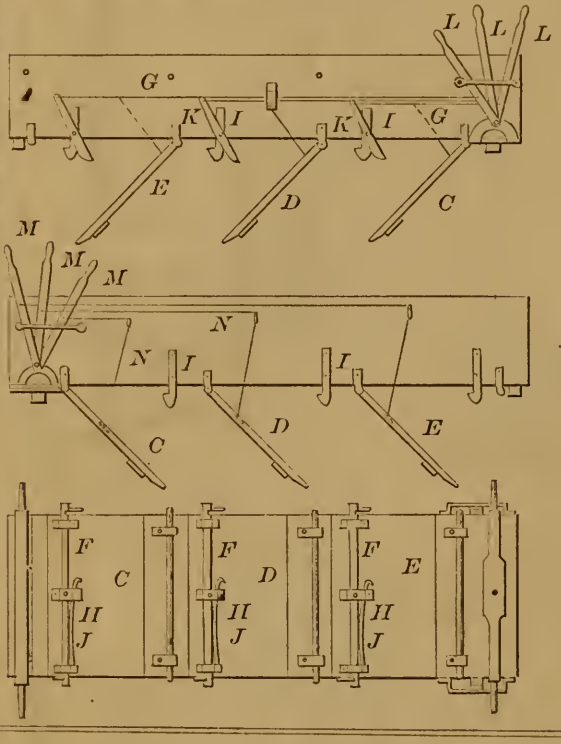


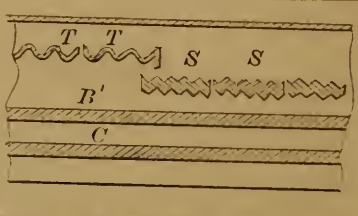
79309—R. M. Brooks—*Railroad Rail.*



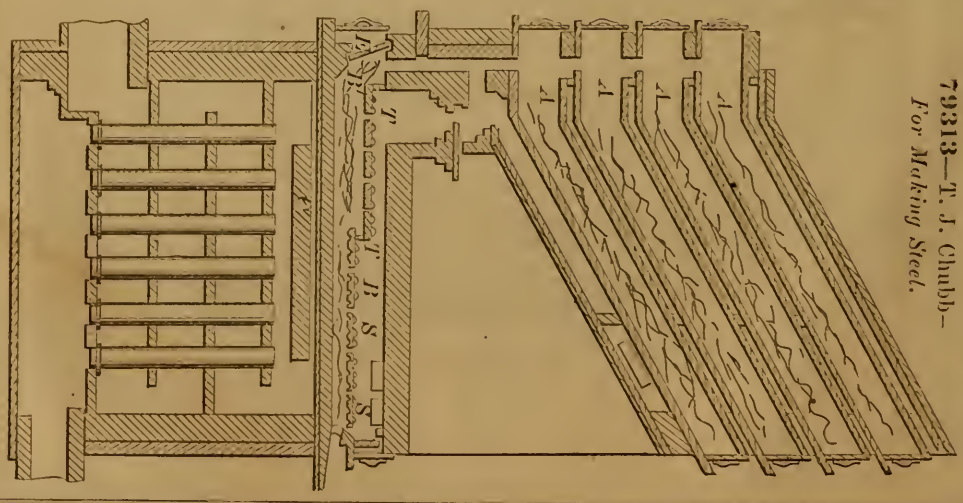
79310—S. Buynitzky—*Wash Boiler.*

79311—M. M. Carr—*Wagon Body.*





79313—T. J. Chubb—*For Making Steel.*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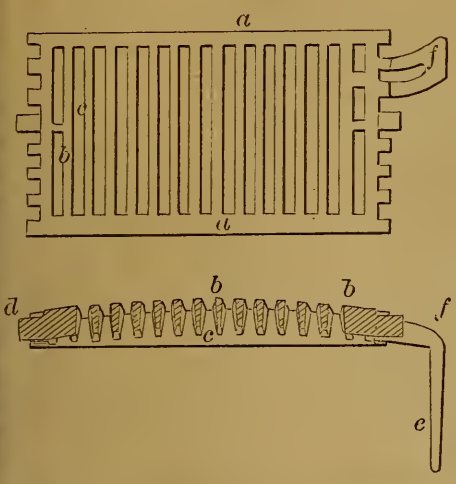
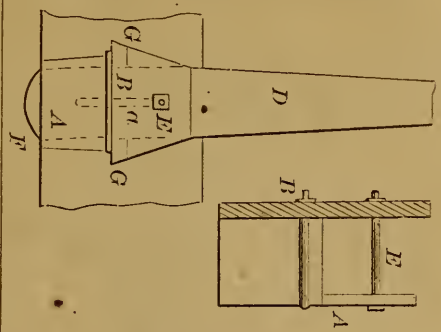
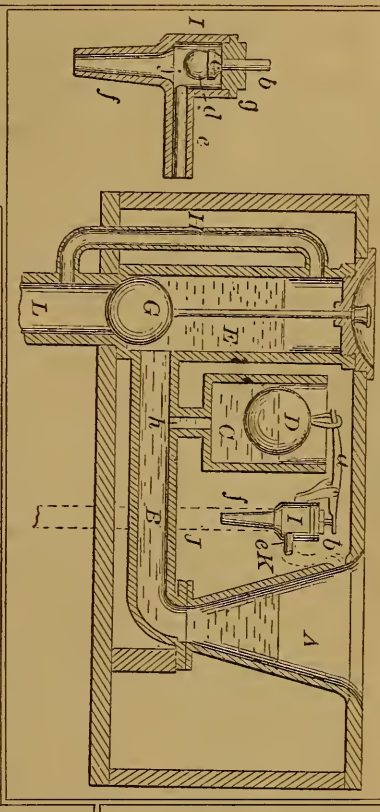
79312—G. Chilson—*Stove Grate.*



79315—R. Clarke—*Car Standard.*



79318—G. Conron—*Supply Regulator for Water Closets.*



79314—T. J. Chubb—*For Making Steel.*

Fig. 6

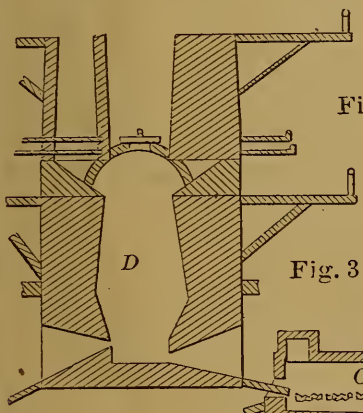
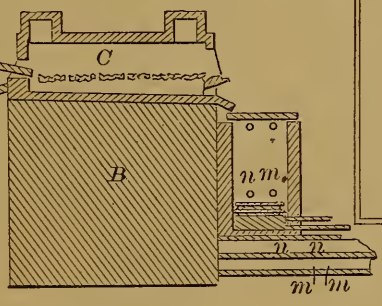
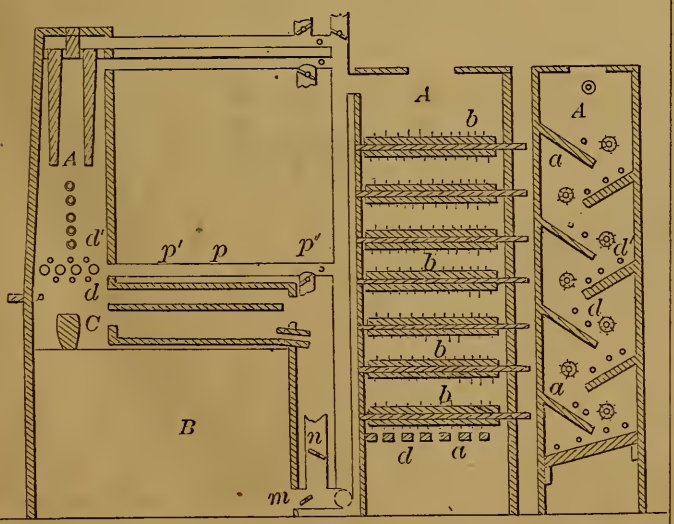


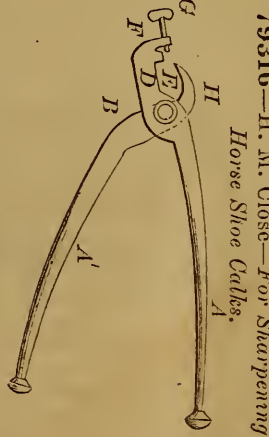
Fig. 3

Fig. 4

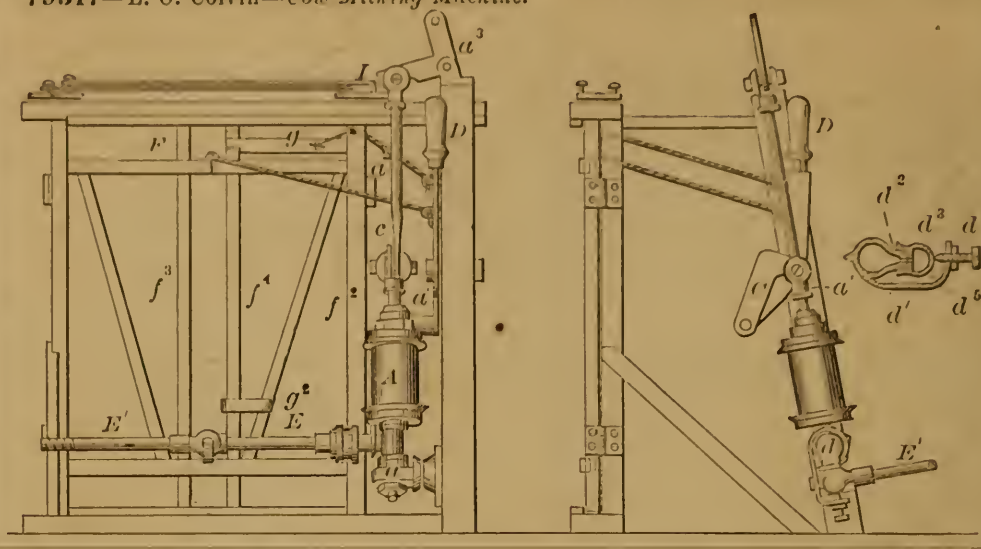




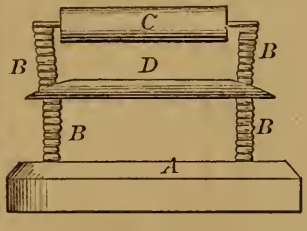
79316—H. M. Close—*For Sharpening Horse Shoe Calks.*



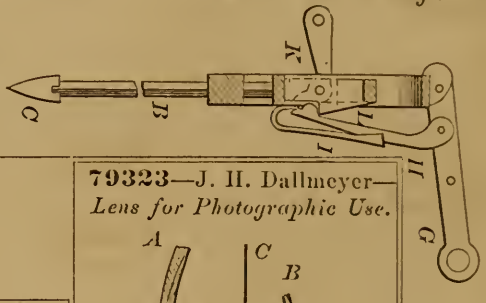
79317—L. O. Colvin—*Cow Milking Machine.*



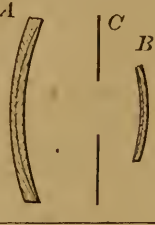
79320—S. H. Cummings—*Sad Iron Handle.*



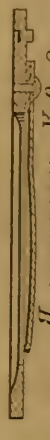
79328—J. Drinkwater—*Horse Hay Fork.*



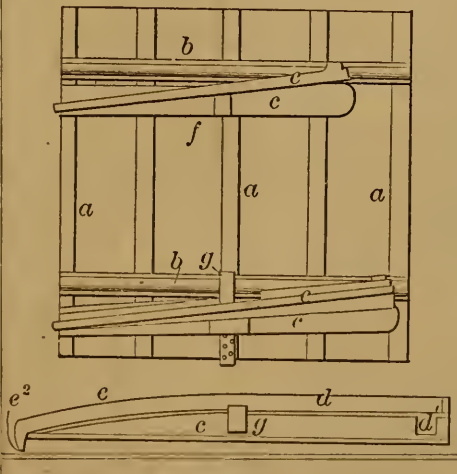
79323—J. H. Dallmeyer—*Lens for Photographic Use.*



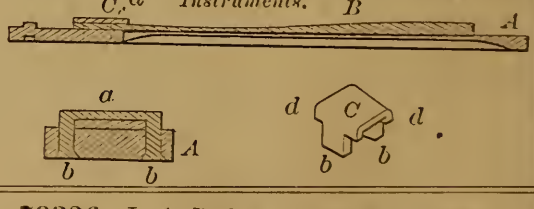
79321—C. N. Cutter—*Reed for Musical Instruments.*



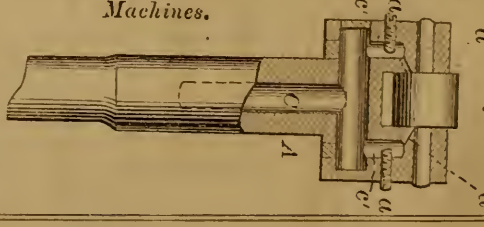
79325—R. Davis—*Car Replacer.*



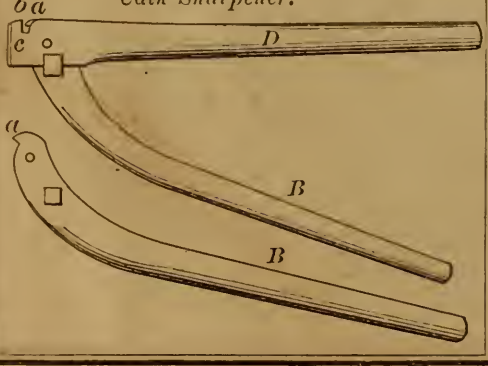
79322—C. N. Cutter—*Reed for Musical Instruments.*



79326—L. A. Dodge—*Lubricator for Nail Machines.*



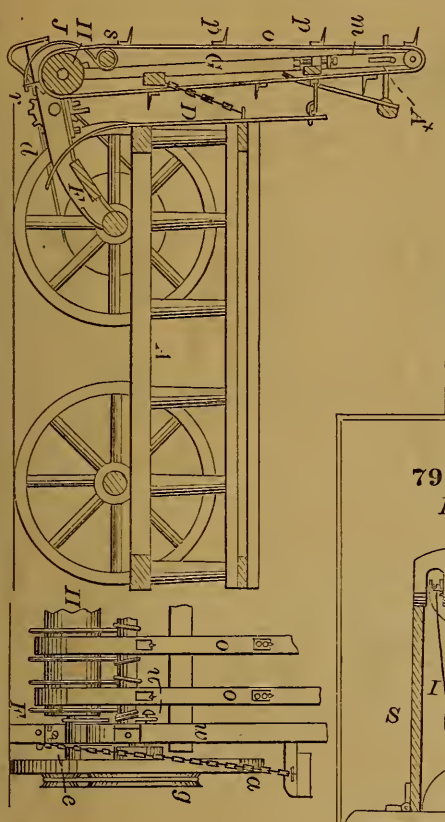
79319—R. Crocker—*Horse Shoe Calk Sharpener.*



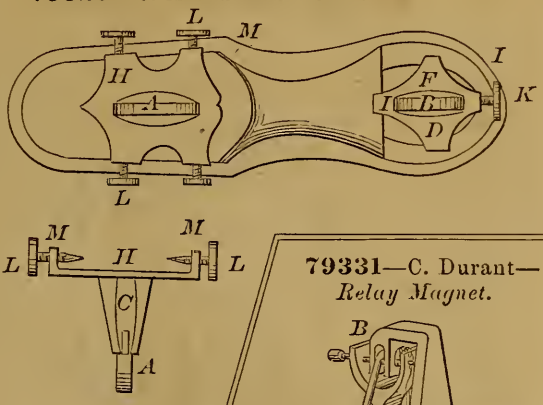
79324—P. Davis—*Letter Pouch.*

1	Allentown, Pa.							10	11
2	Corning, N. Y.								
3	Memphis, Tenn.								
1	Albany, N. Y.								
3	Washington, D. C.								
6	Georgetown, D. C.								
7	Fort Wayne, Ind.								
8	St. Louis, Mo.								
9	Hartford, Conn.								

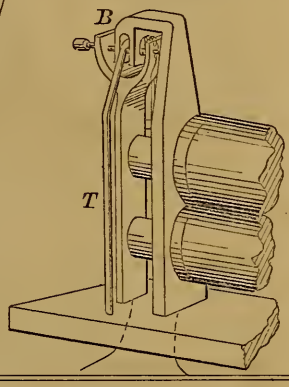
79327—N. B. Douglas—*Hay Loader.*



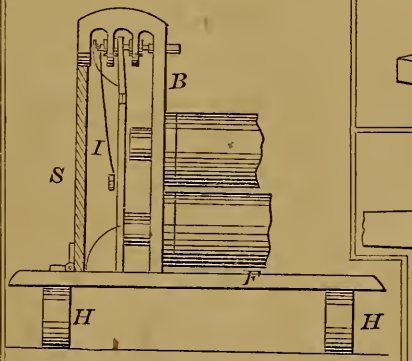
79329—S. A. Du Bois—*Skate.*



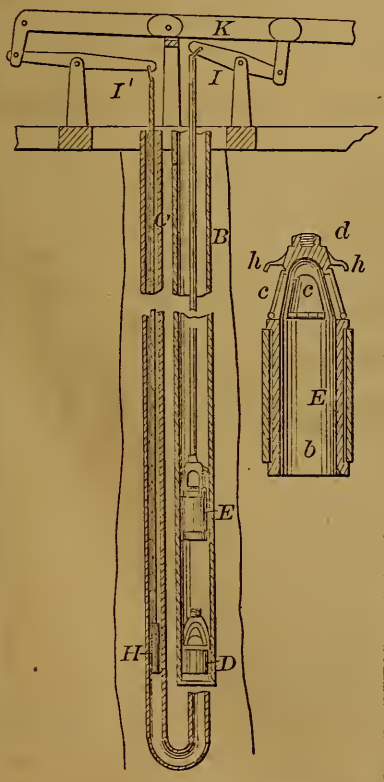
79331—C. Durant—*Relay Magnet.*



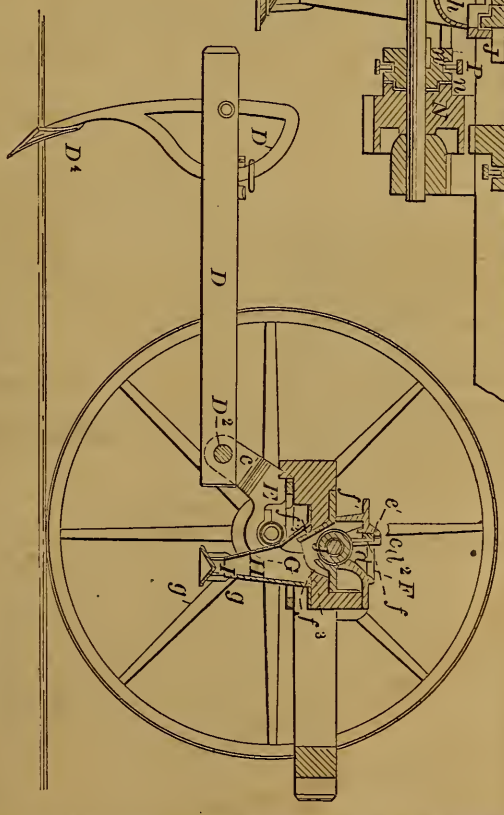
79330—C. Durant—*Relay Magnet.*



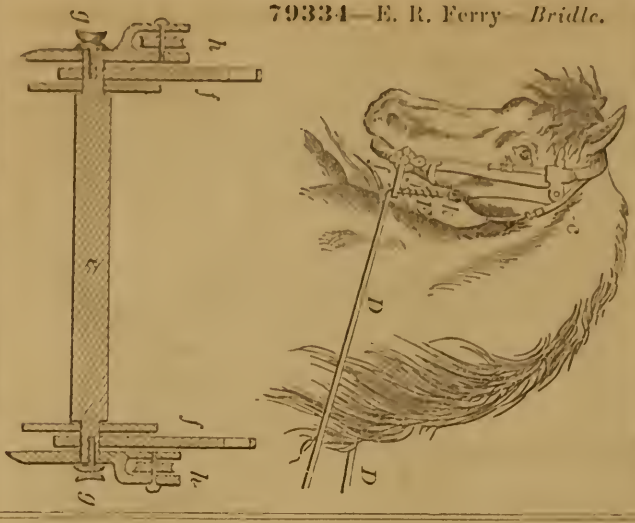
79333—M. D. Fenner—*Oil Well Pump.*



79332—G. Esterly—*Seeder and Cultivator.*

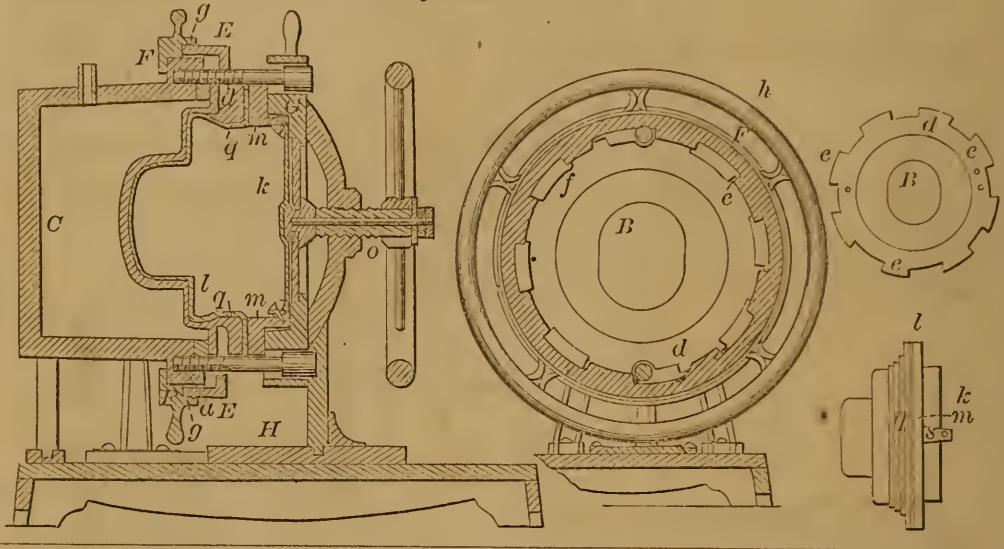


79334—E. R. Ferry—*Bridle.*

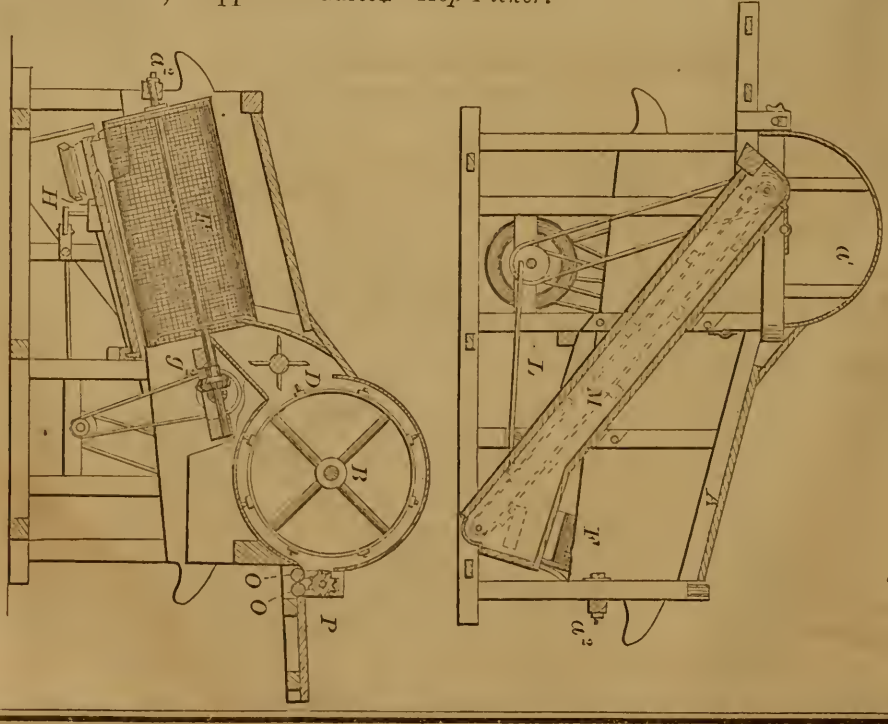


79335—C. C. Foote—*Ice Pitcher.*

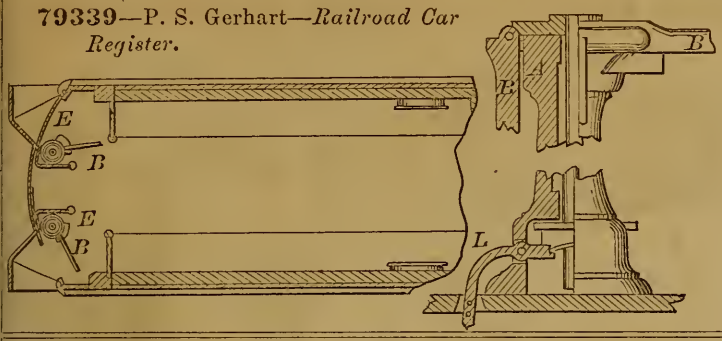
79338—W. E. George—*For Pressing Hats.*



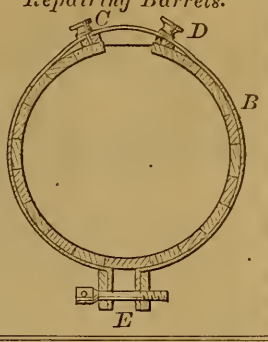
79336—Fornerook, Shepperd & Garton—*Hop Picker.*



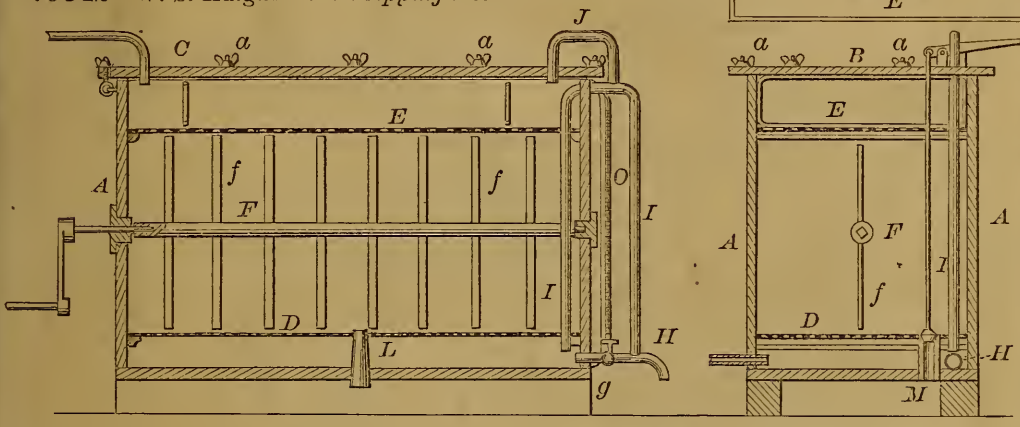
79339—P. S. Gerhart—*Railroad Car Register.*



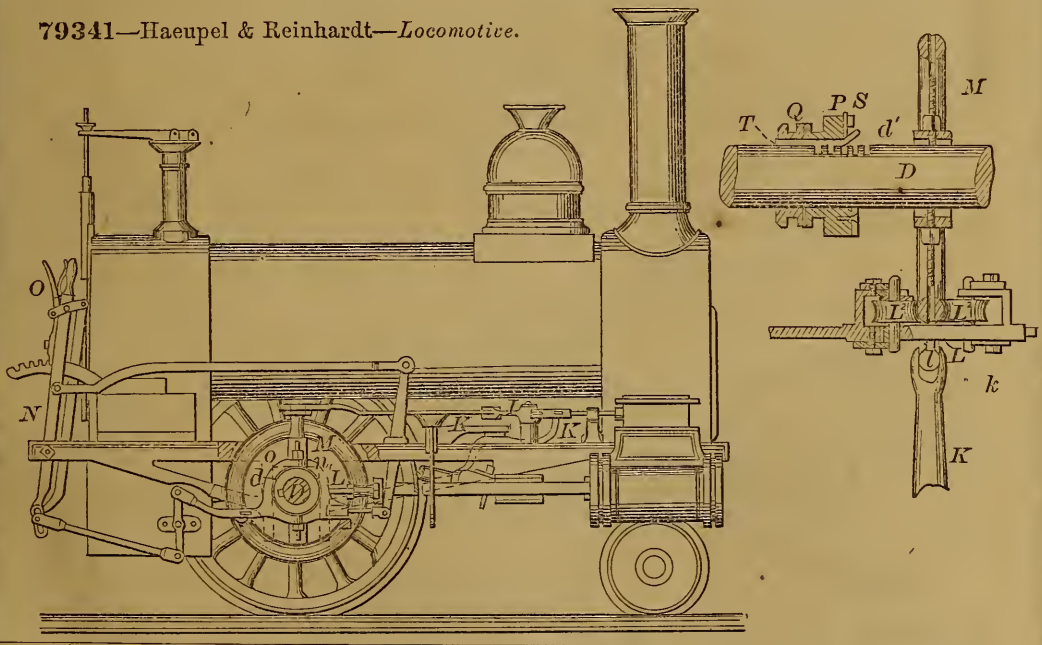
79340—E. W. Gillman—*Repairing Barrels.*



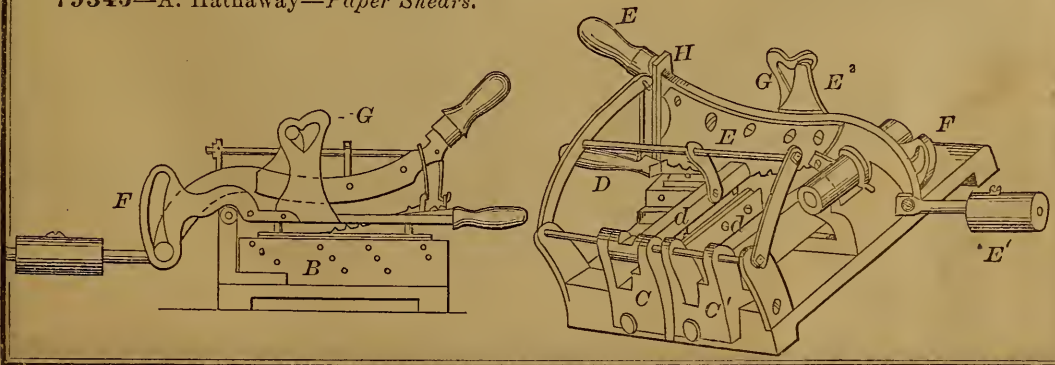
79342—W. S. Haight—*For Hopping Beer.*



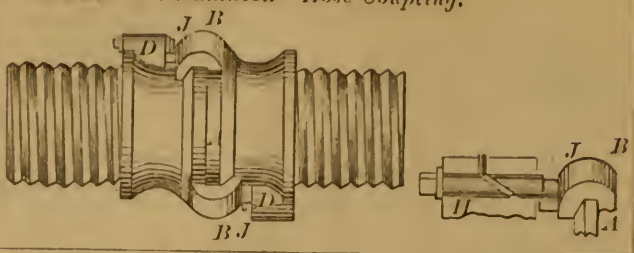
79341—Haeupel & Reinhardt—*Locomotive.*



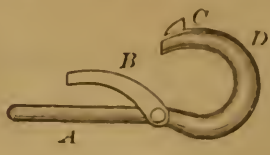
79345—A. Hathaway—*Paper Shears.*



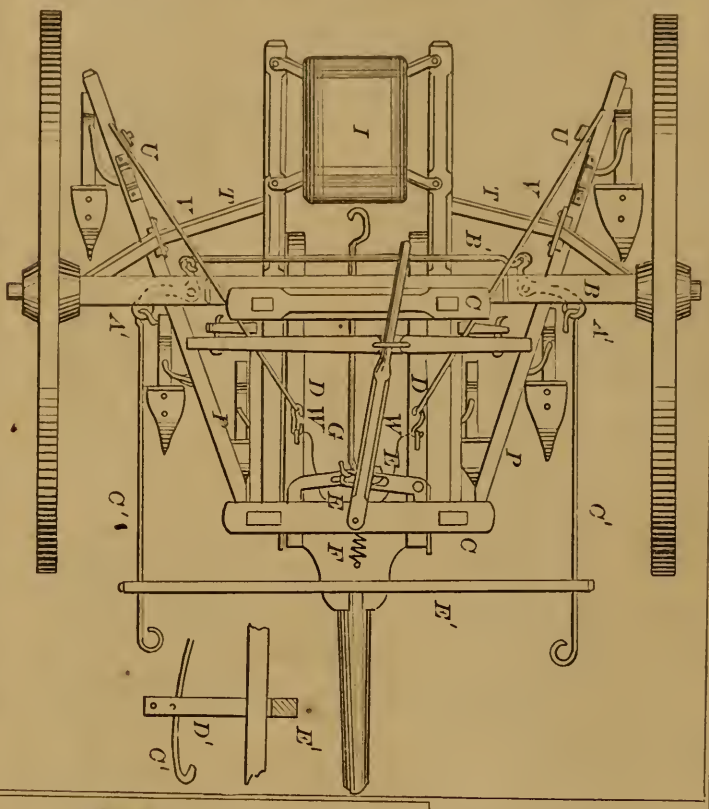
79343—W. Hamilton—*Hose Coupling.*



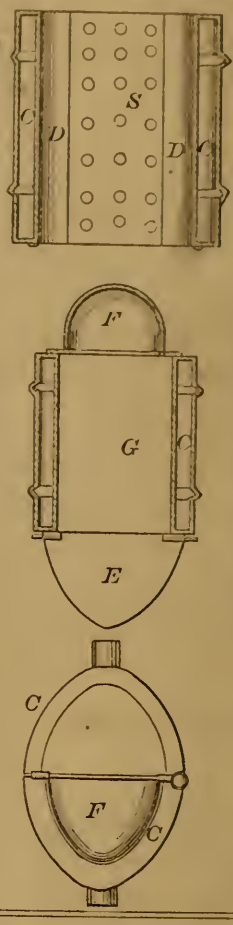
79347—D. Hayes—*Clasp Hook.*



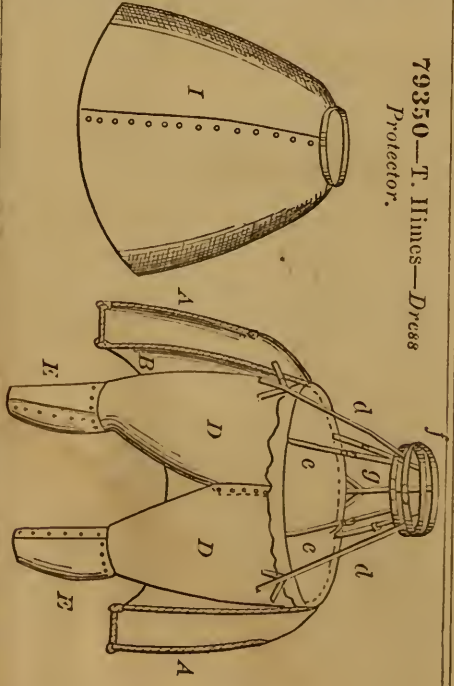
79344—Hanover & Bailey—*Cultivator.*



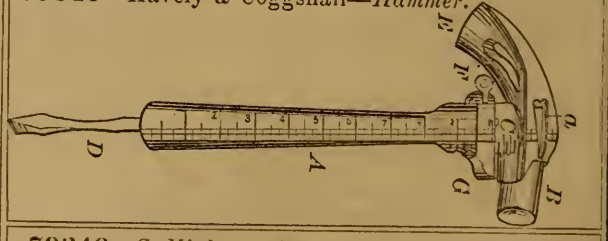
79318—H. Herrick—*Stove Pipe, Oven and Heater.*



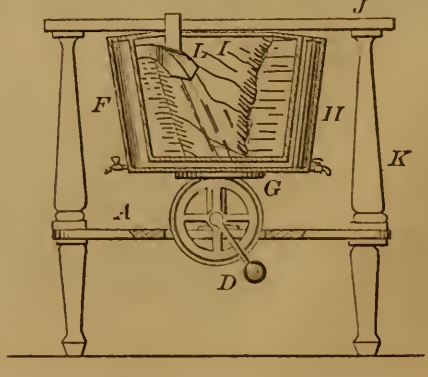
79350—T. Himes—*Dress Protector.*



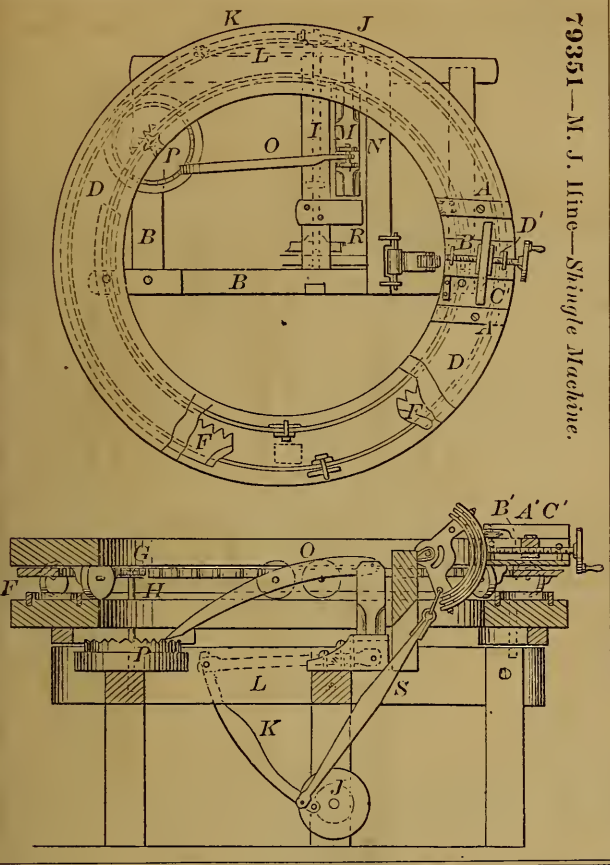
79346—Havely & Coggshall—*Hammer.*



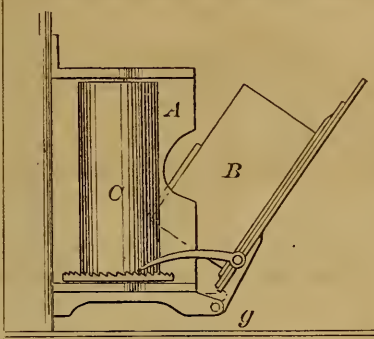
79349—C. Higley—*Churn and Ice Cream Freezer.*



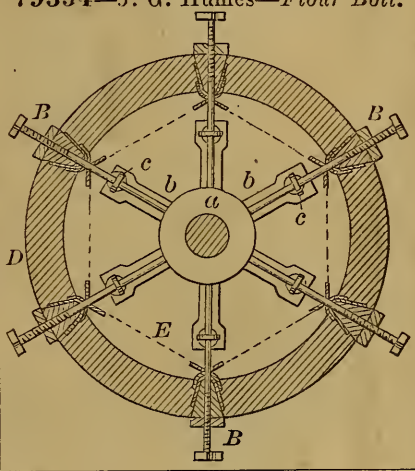
79351—M. J. Hine—*Shingle Machine.*



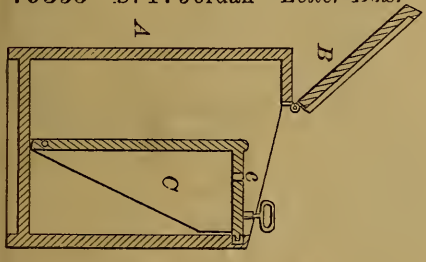
79353—A. Hoyt—*Match Safe.*



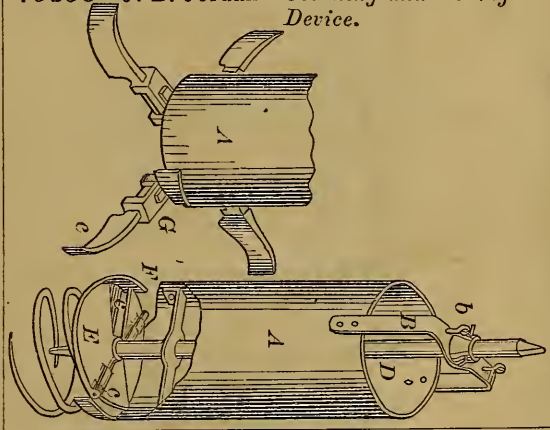
79354—J. G. Humes—*Flour Bolt.*



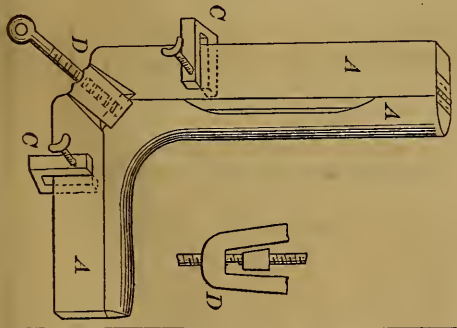
79355—D. P. Jordan—*Letter Box.*



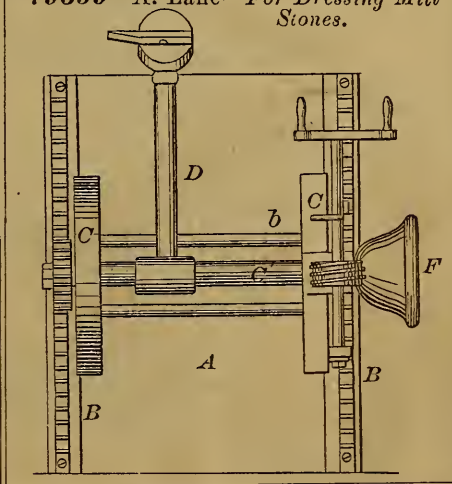
79356—J. B. Jordan—*Cleaning and Boring Device.*



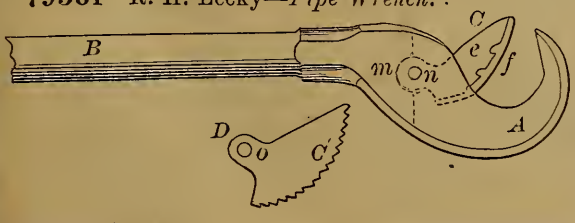
79357—Kathan & Rummer—*Boot Crimp.*



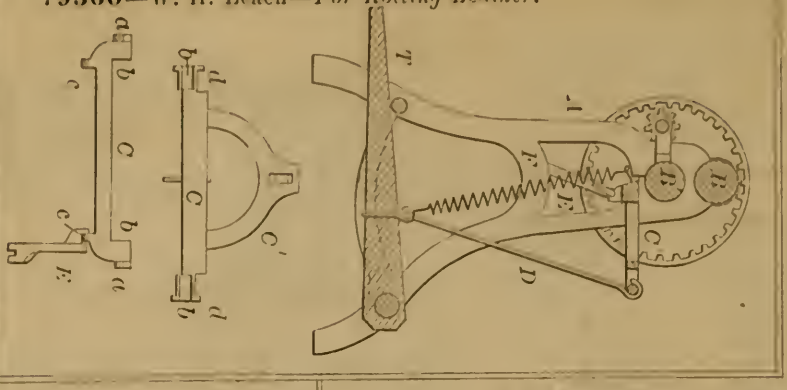
79359—A. Lane—*For Dressing Mill Stones.*



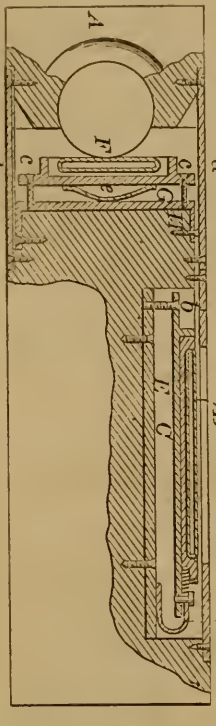
79361—R. H. Lecky—*Pipe Wrench.*



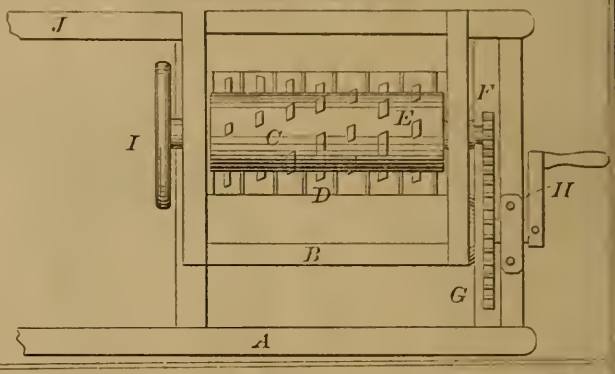
79360—W. H. Leach—*For Rolling Leather.*



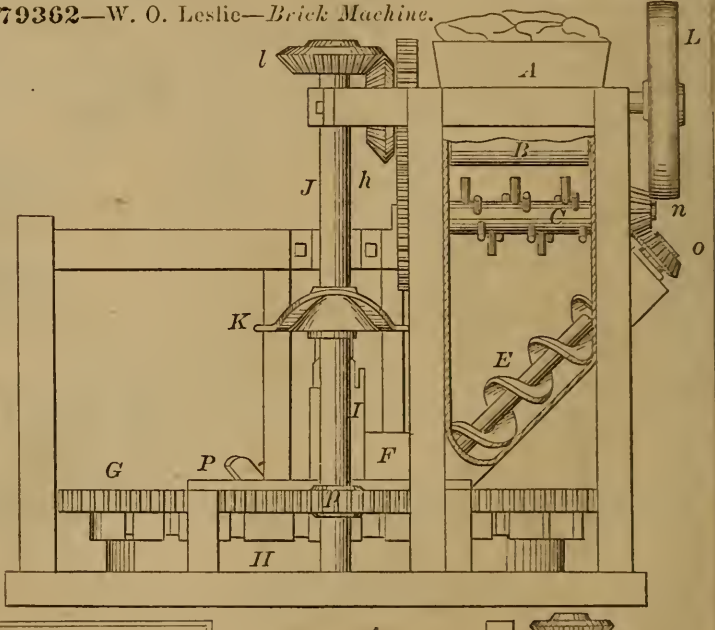
79363—H. Lewis—*Spirit Level.*



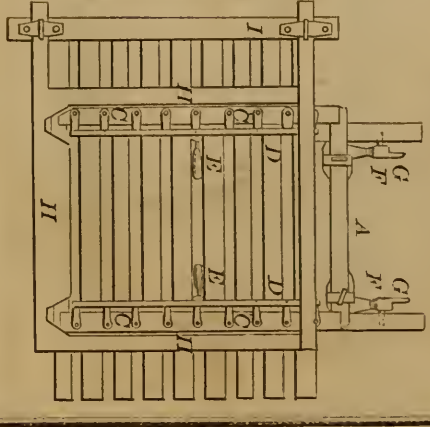
79365—J. Macadam—*Curd Mill.*

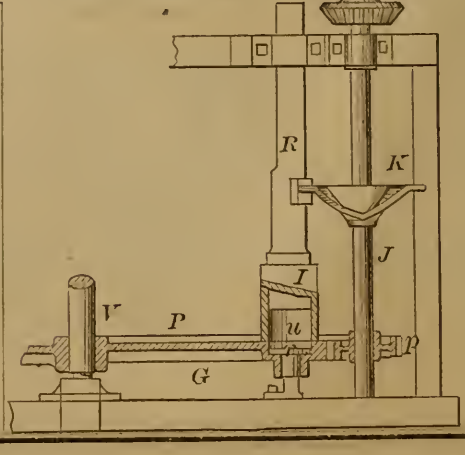


79362—W. O. Leslie—*Brick Machine.*

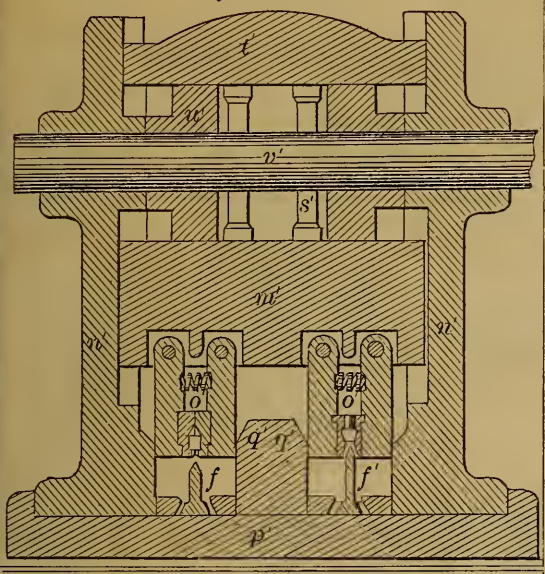


79366—O. C. Macklett—*Lathing Machine.*

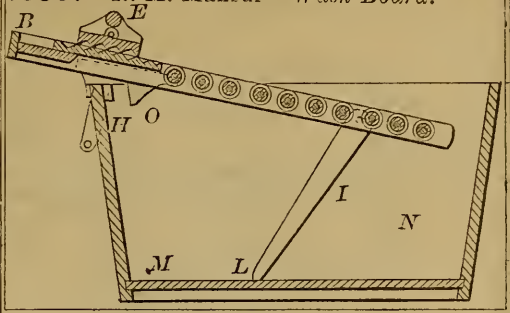




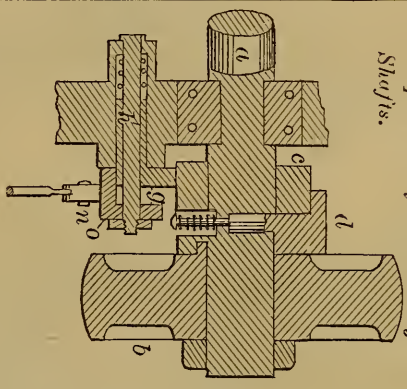
79364—H. L. Lowman—*For Forming Eyes of Pickaxes.*



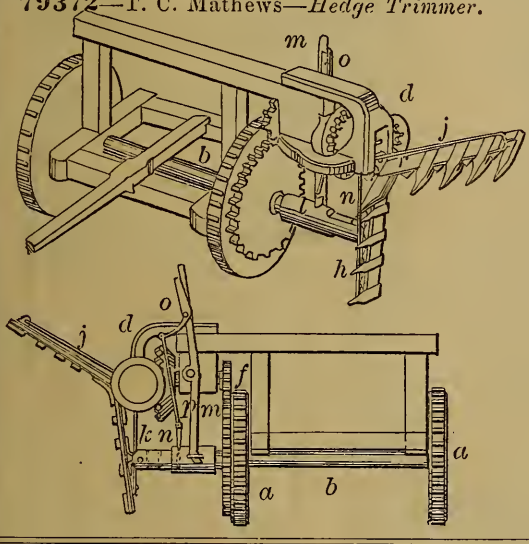
79367—R. M. Mansur—*Wash Board.*



79368—E. J. Manville—*Stop Motion for Revolving Shafts.*

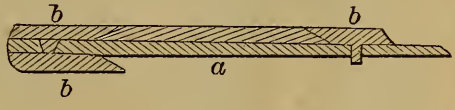


79372—T. C. Mathews—*Hedge Trimmer.*

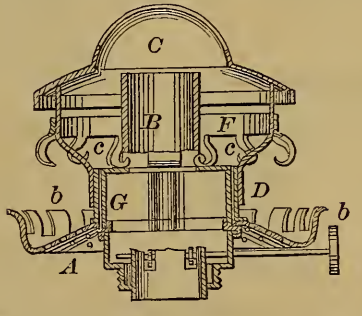


79371—W. C. Mason—*Cutlery.*

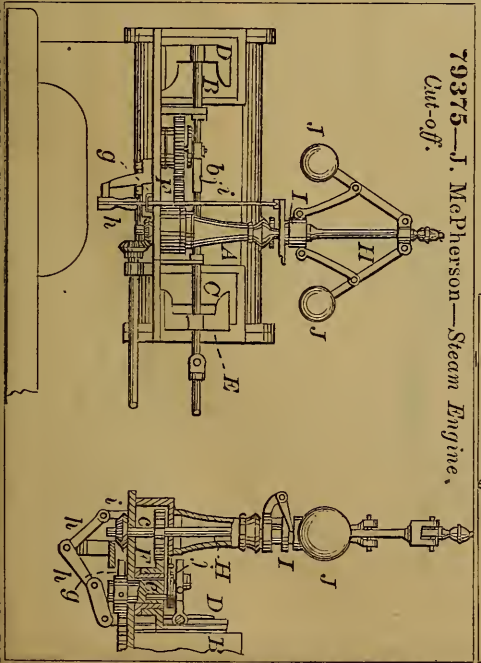
79370—S. Mason—*Cutlery.*



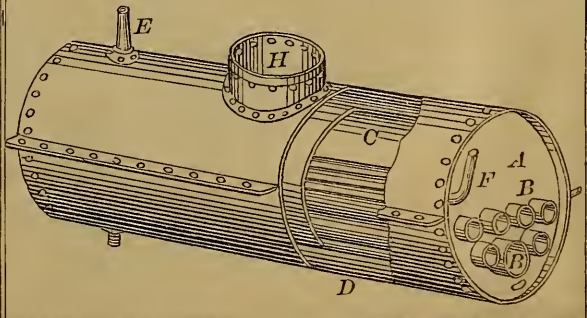
79369—G. A. Mason—*Lamp Burner.*



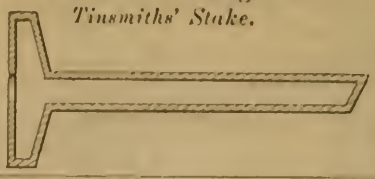
79375—J. McPherson—*Steam Engine, Cut-off.*



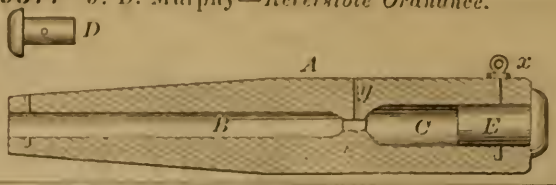
79373—J. G. & B. F. Mattingly—*Whisky Still.*



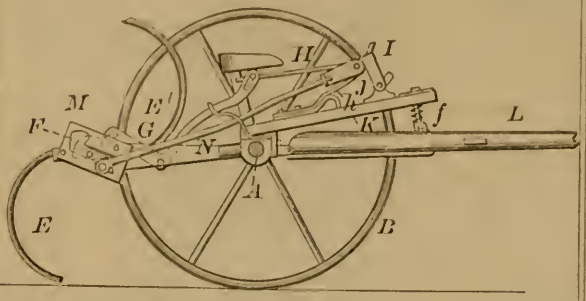
79376—E. H. Meigs—*Tinsmiths' Stake.*



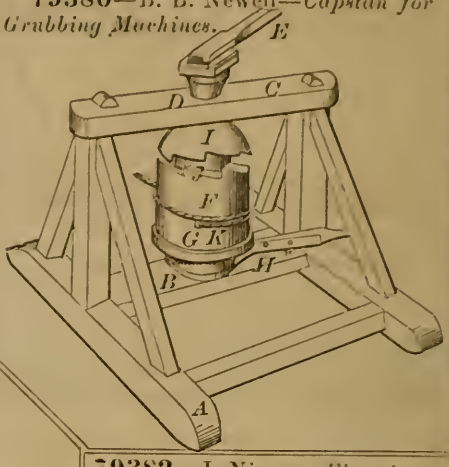
79377—J. D. Murphy—*Reversible Ordnance.*



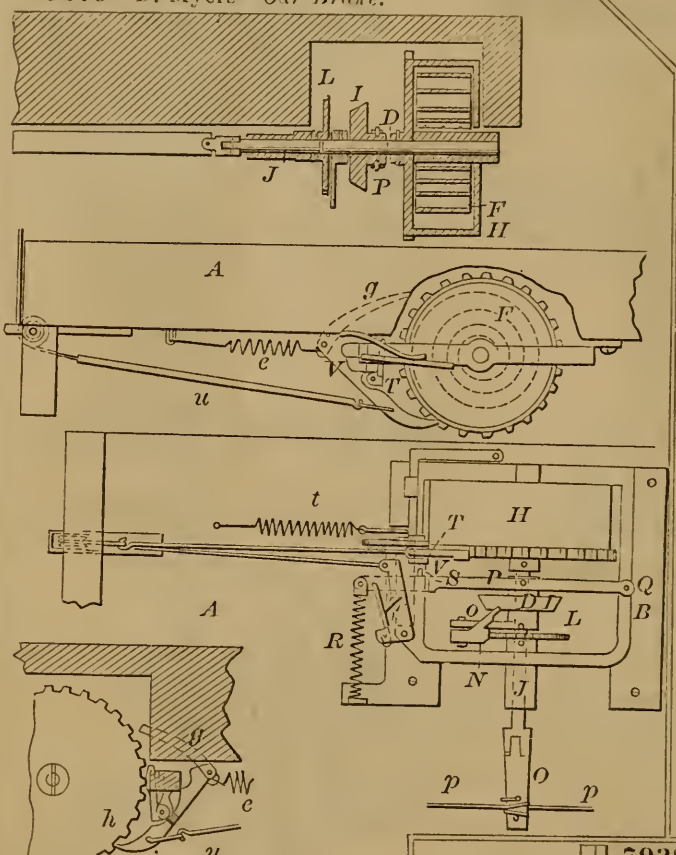
79378—C. E. Murray—*Horse Rake.*



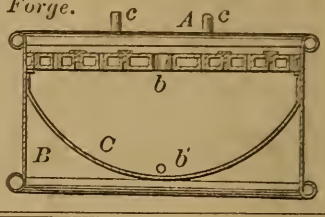
79380—B. B. Newell—*Capstan for Grubbing Machines.*



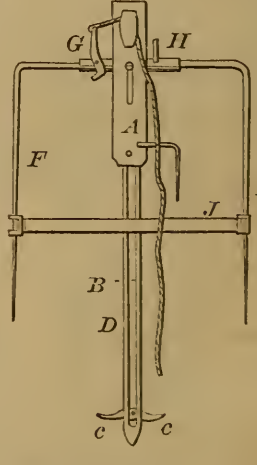
79379—D. Myers—*Car Brake.*



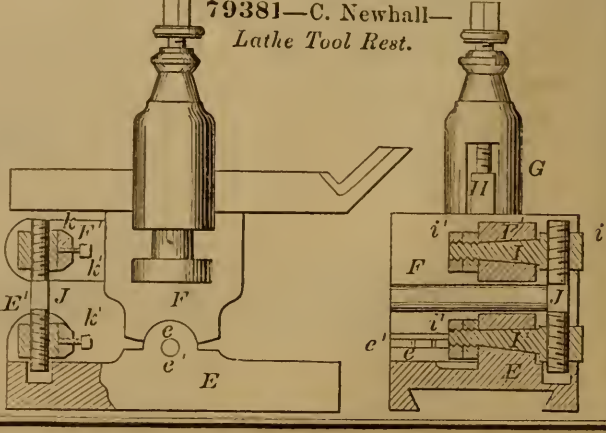
79382—J. Nixon—*Flanging Forge.*



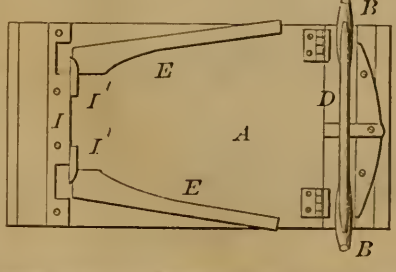
79384—S. Page—*Horse Hay Fork.*



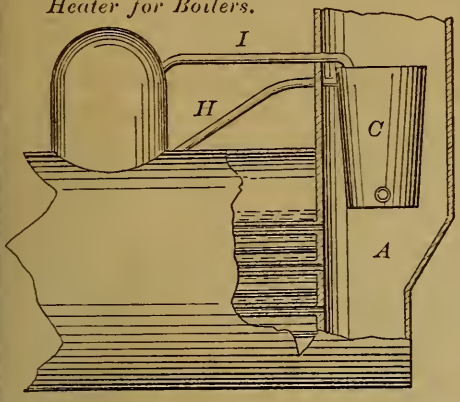
79381—C. Newhall—*Lathe Tool Rest.*



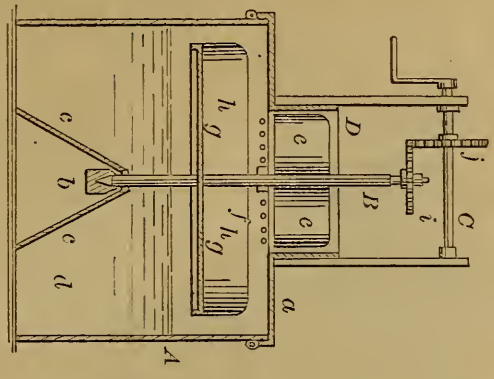
79383—E. Page—*Sheep Table, &c.*



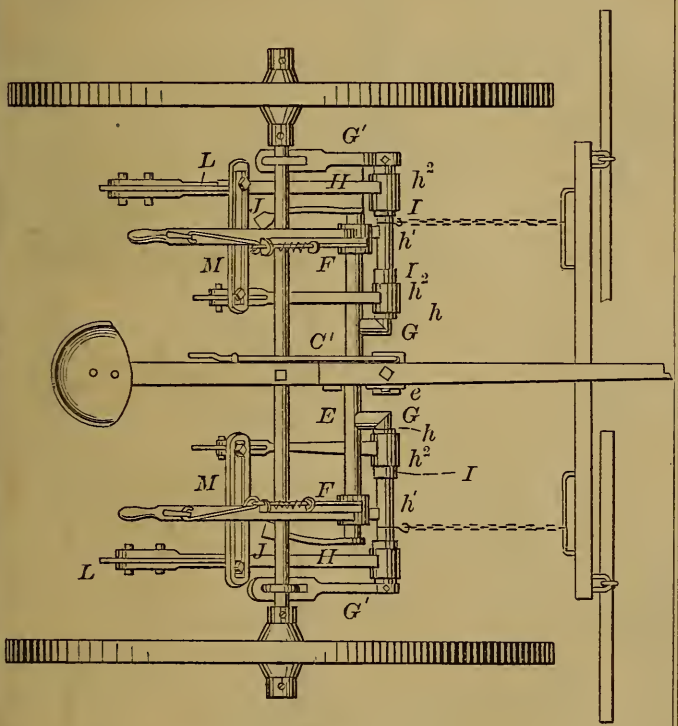
79385—H. O. Perry—*Feed Water Heater for Boilers.*



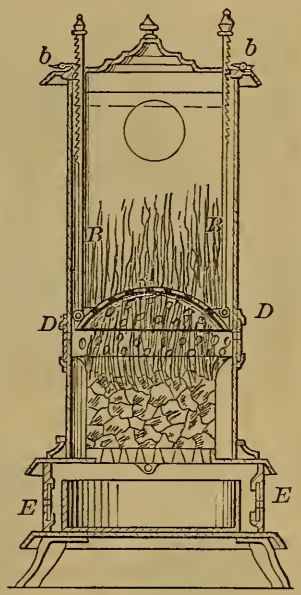
79386—J. B. Peterson—*For Mixing Flour, &c.*



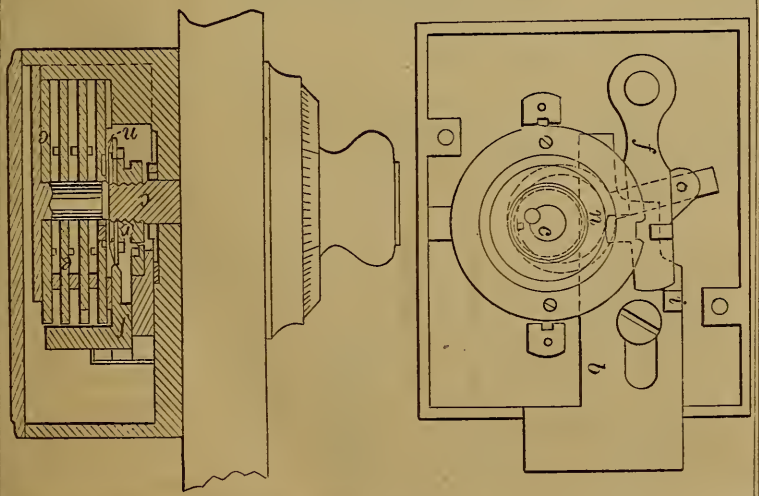
79387—E. Phifer—*Cultivator.*



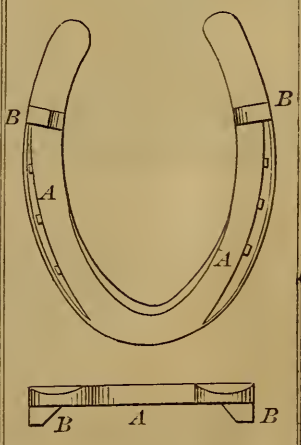
79390—A. C. Rand—*Stove.*



79388—O. E. Pillard—*Permutation Lock.*

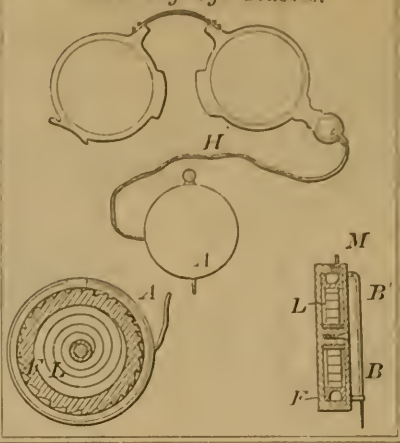


79389—Z. V. Purdy—*Horse Shoe.*

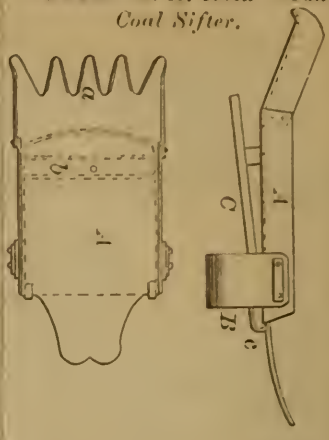


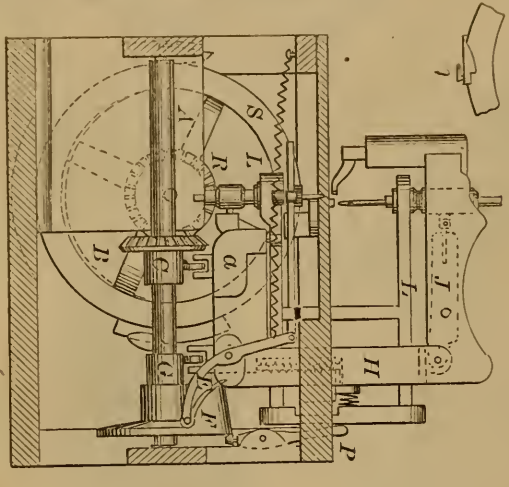
79391—C. S. Rankin—*Fireplace Grate.*

79394—A. W. Roberts—*For Securing Eye Glasses.*

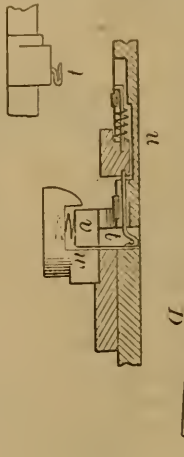


79398—G. H. Roth—*Hand Coal Sifter.*

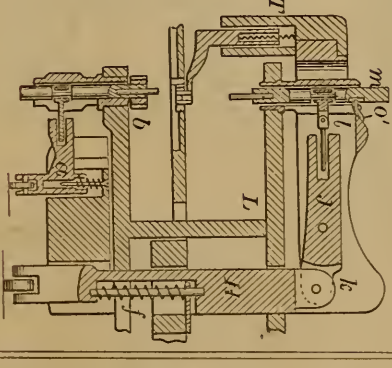




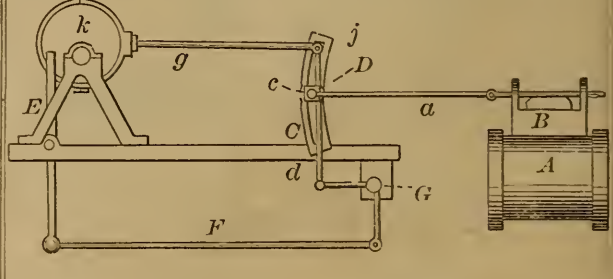
79393—H. E. Reynolds—*Button Hole Sewing Machine.*

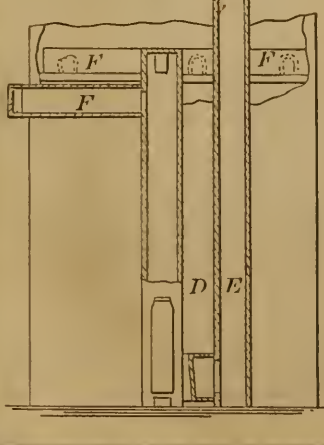


79392—W. Reser—*Stove Door*

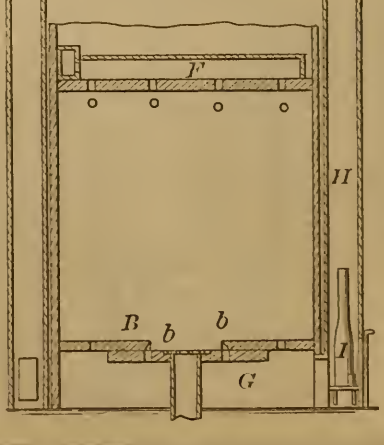


79396—E. T. Robinson—*Valve Gear.*



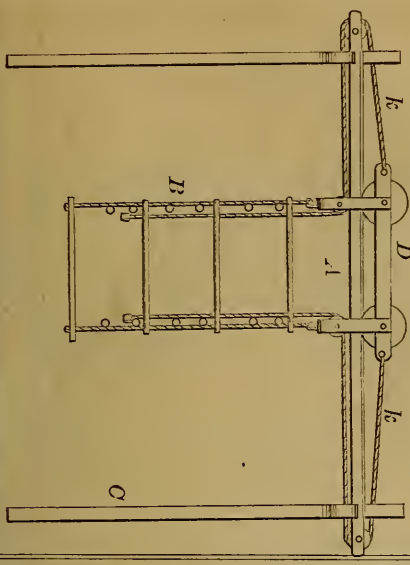


79395—E. L. Roberts—*Ventilator.*

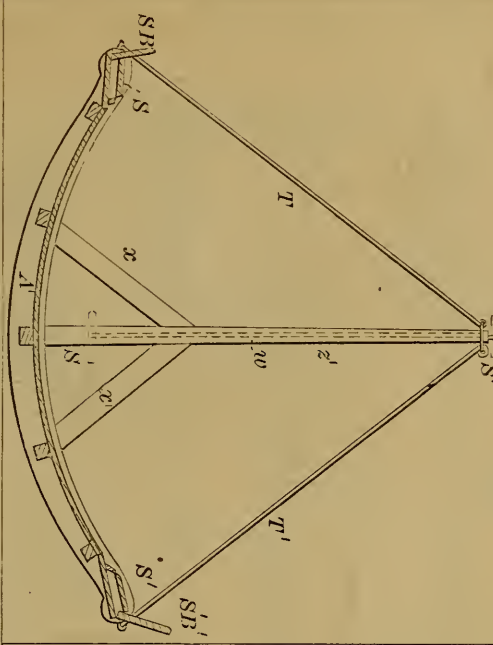


79397—J. Rogers—*Lock Nut.*

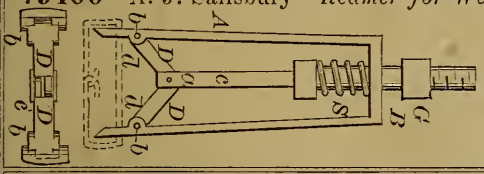
79399—R. Rowan—*Scaffold and Ladder.*



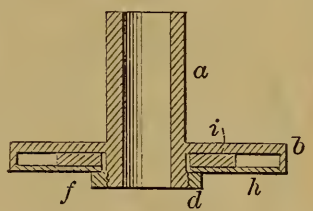
79101—T. H. B. Sanders—*Rocking Swing.*



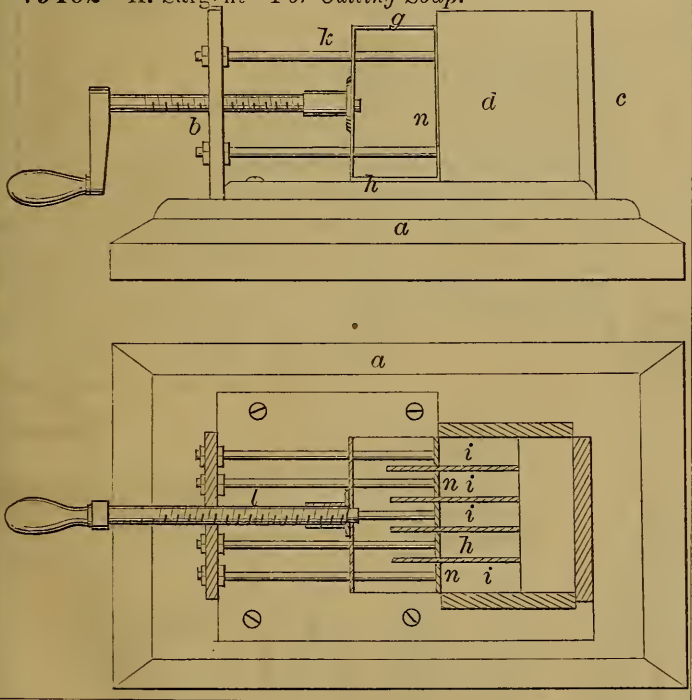
79400—A. J. Salisbury—*Reamer for Wells.*



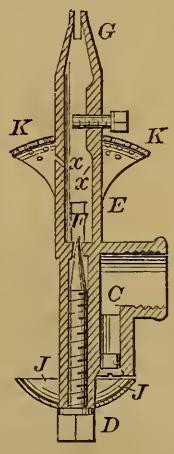
79405—A. W. Stephenson—*Balancing Polishing Wheels.*



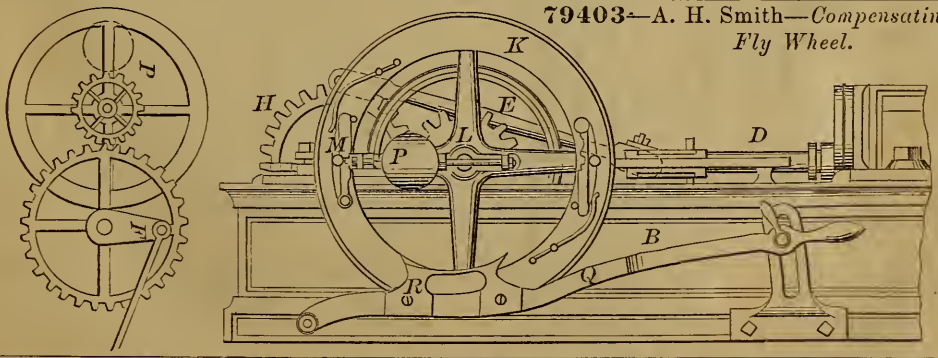
79402—H. Sargent—*For Cutting Soap.*



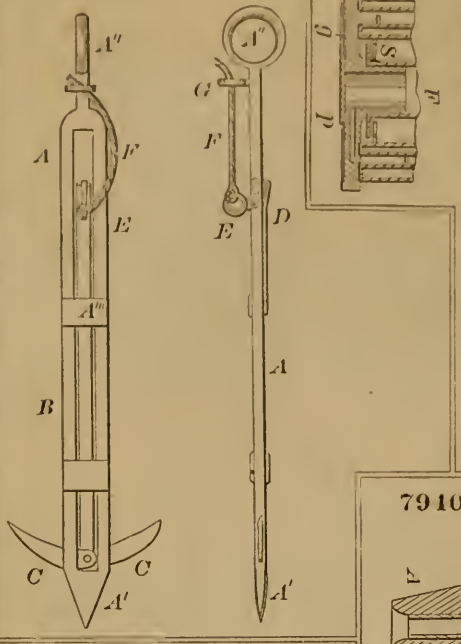
79404—W. H. Smith—*Vapor Burner.*



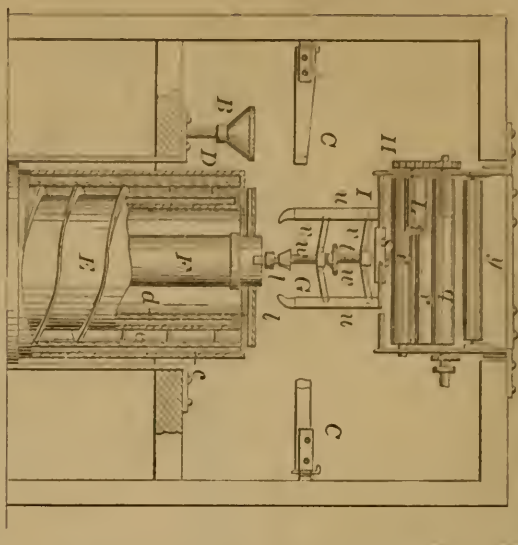
79403—A. H. Smith—*Compensating Fly Wheel.*



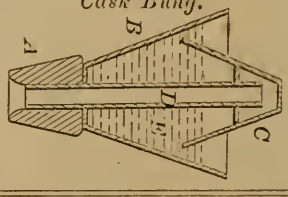
79406—Stevens & Patcher—*Horse Hay Fork.*



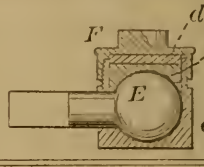
79412—O. C. Sweet—*For Drying Fabrics.*



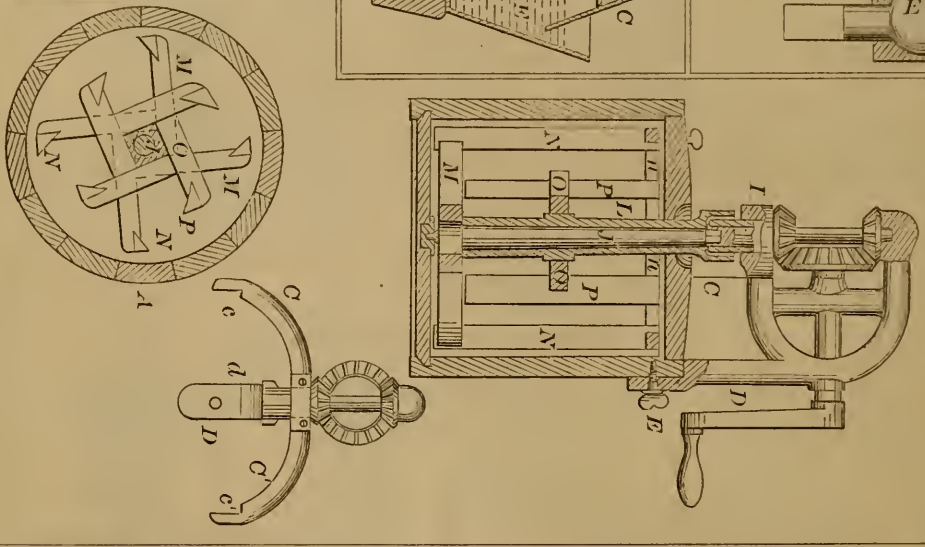
79407—A. A. Stimson—*Cask Bung.*



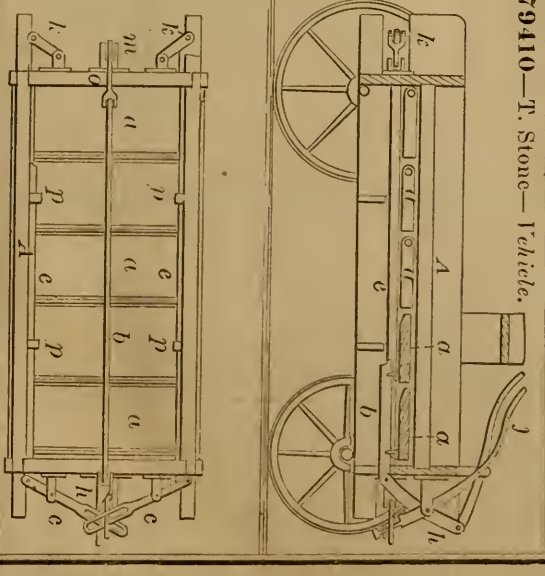
79408—M. W. St. John—*Ball and Socket Joint*



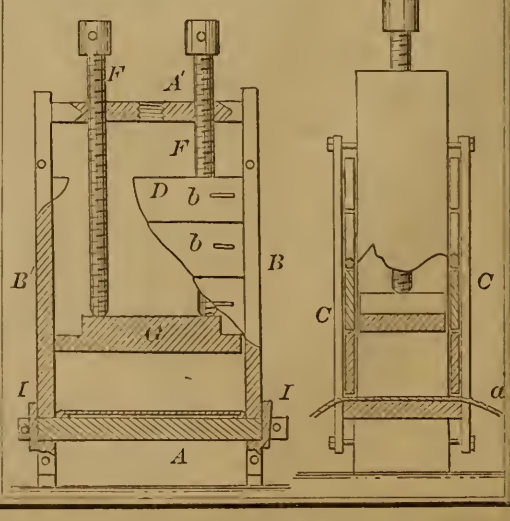
79406—S. S. Stokes—*Churn.*



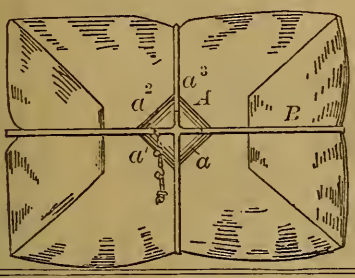
79410—T. Stone—*Vehicle.*



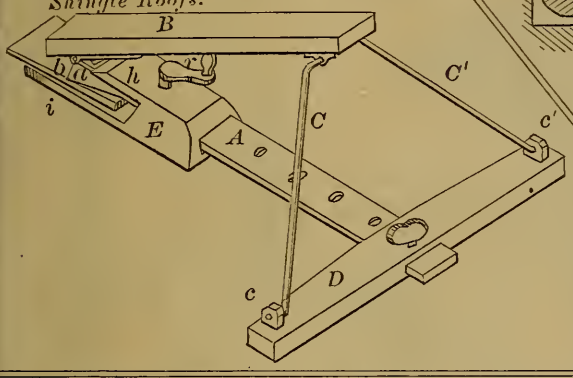
79413—H. Taylor—*Hop Press.*



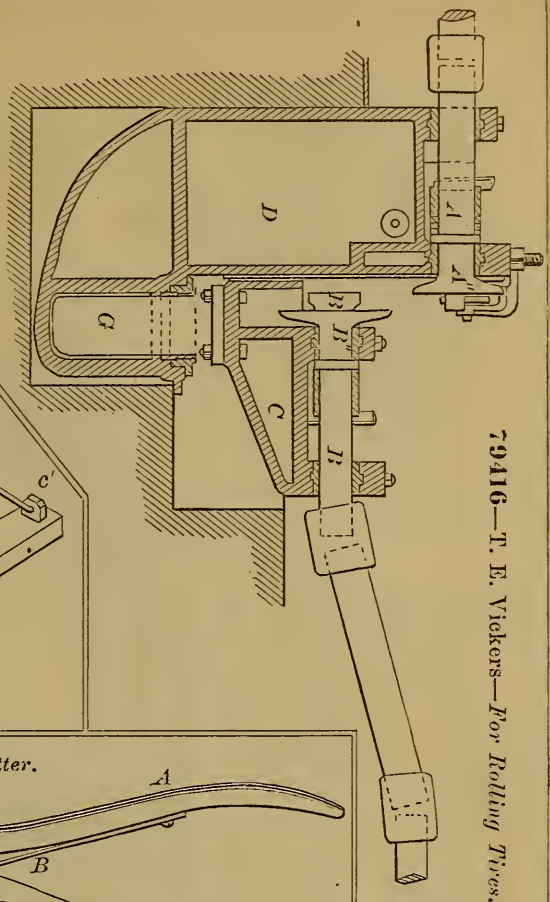
79414—E. Truslow—*Bag Tie.*



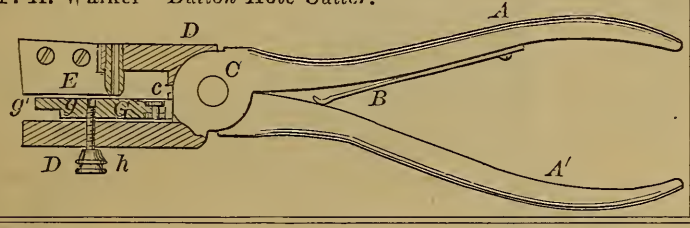
79415—P. B. Turner—*Bracket for Shingle Roofs.*



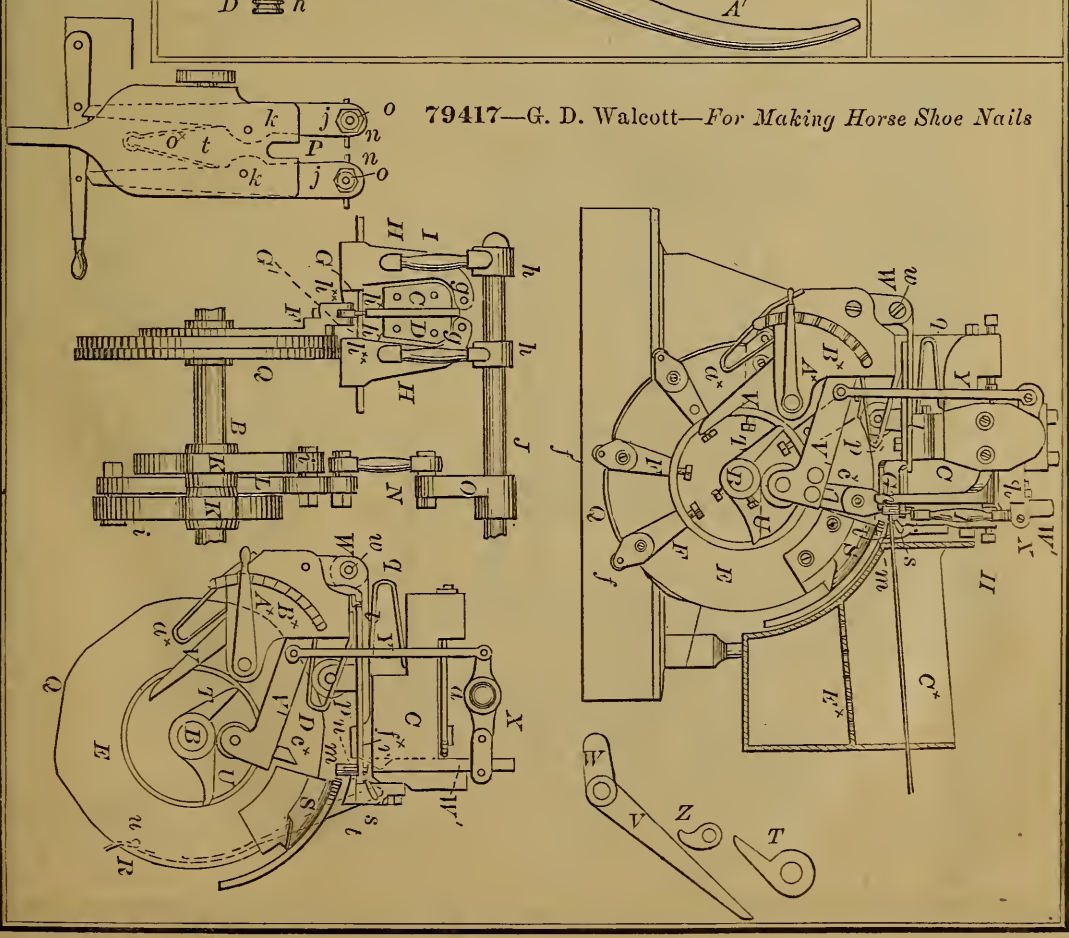
79416—T. E. Vickers—*For Rolling Tires.*



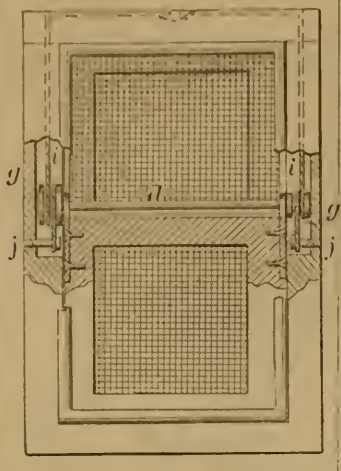
79418—F. H. Walker—*Button Hole Cutter.*



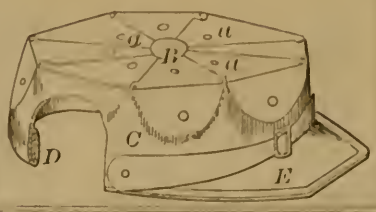
79417—G. D. Walcott—*For Making Horse Shoe Nails*



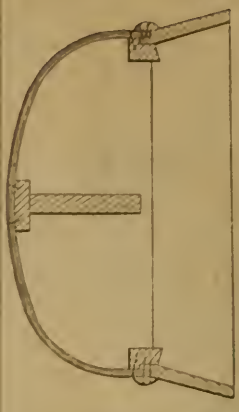
79419—C. T. Warren—*Mosquito Bar.*

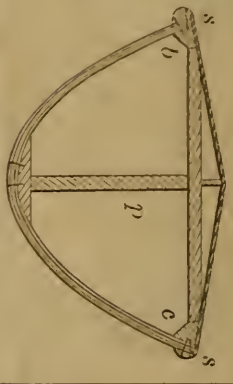


79420—Waterman & Perkins—*Paper Cap.*

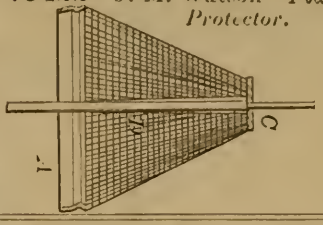


79421—E. & G. A. Waters—*Boat.*

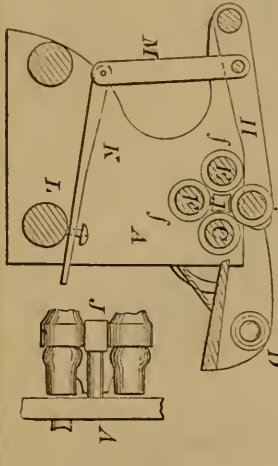




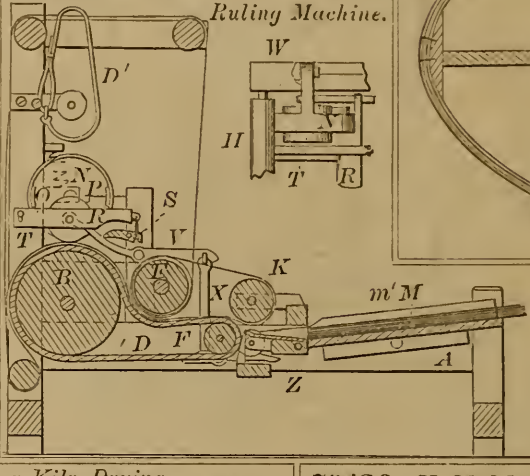
79422—J. M. Watson—*Plant Protector.*



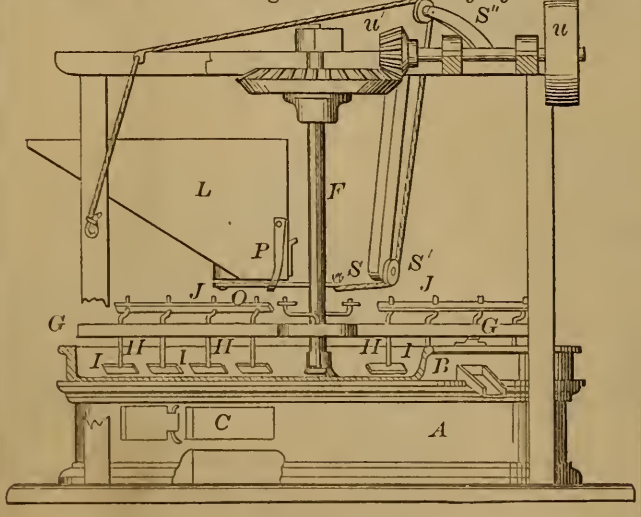
79423—A. Weeks—*For Making Cigars.*

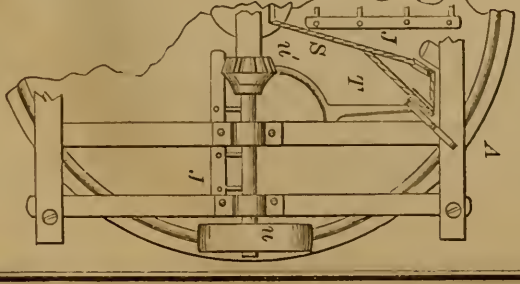


79424—W. S. Wilder—*Paper Ruling Machine.*



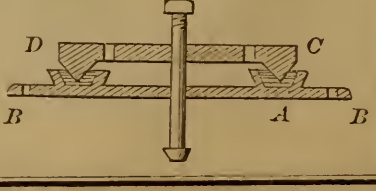
79425—A. B. Winegar—*For Kiln Drying.*



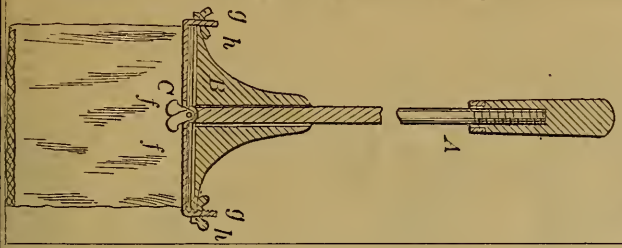


79426—H. M. Woodford—*Match Safe.*

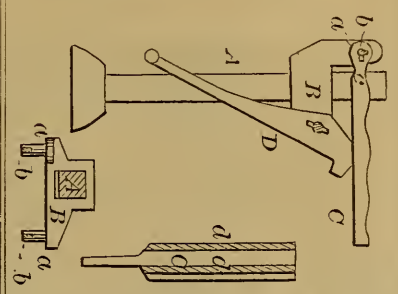
79429—E. H. Adams—*Fifth Wheel for Carriages.*



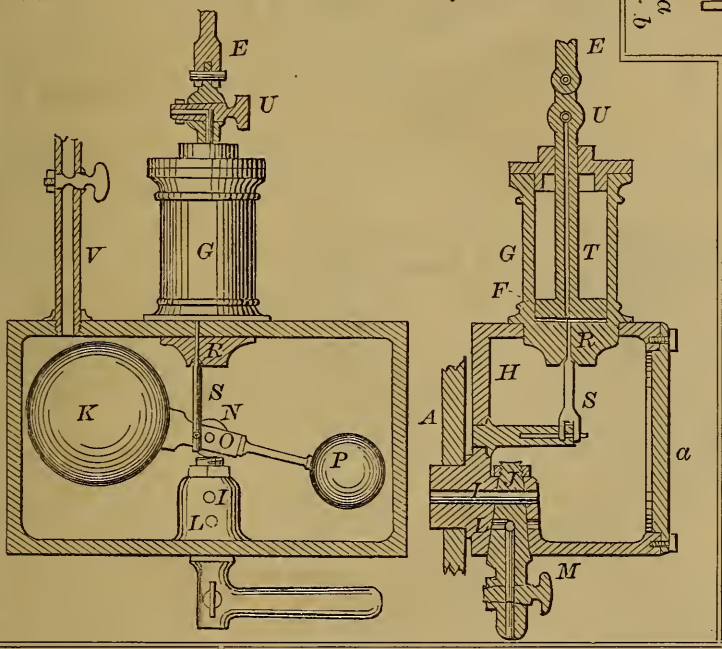
79428—J. A. Wright—*Mop and Wringer.*



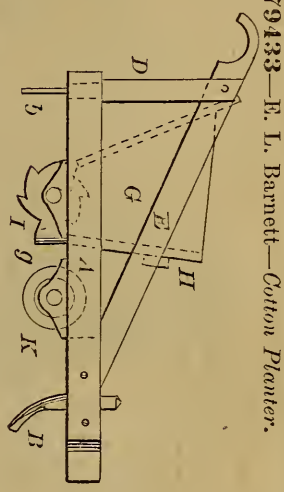
79430—F. Arnold—*Wagon Jack.*



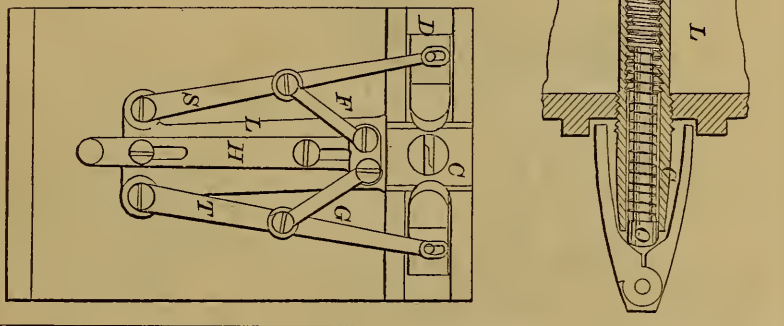
79431—J. Atkins—*Low Water Alarm for Boilers.*



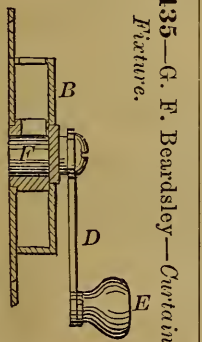
79433—E. L. Barnett—*Cotton Planter.*



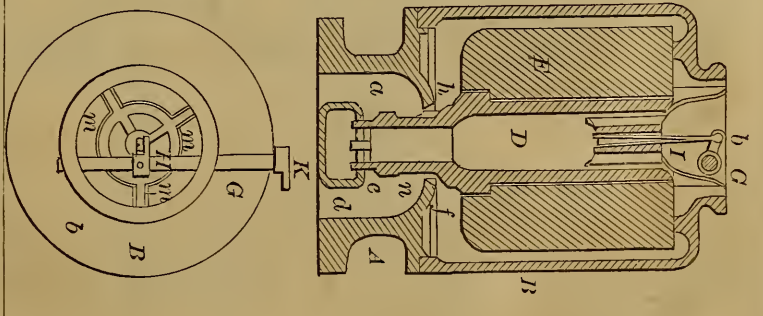
79434—T. Barrett—*For Forming Rings on Carboys.*



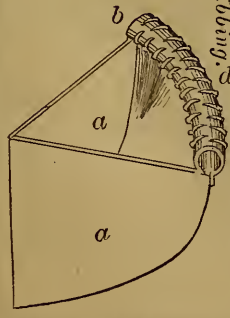
79435—G. F. Beardsley—*Curtain Fixture.*



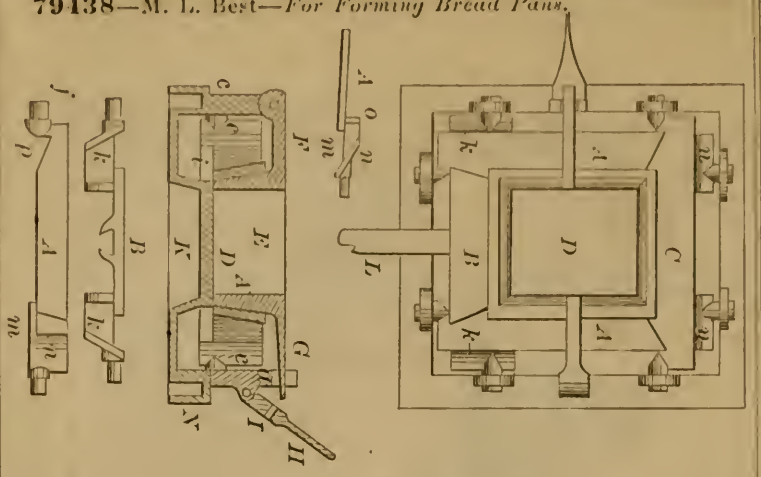
79436—W. H. Bechtel—*Steam Safety Valve.*



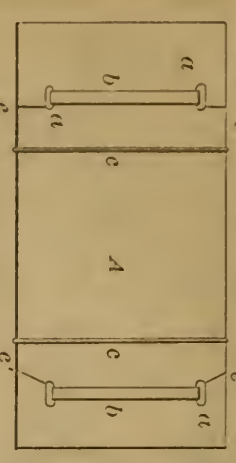
79437—S. S. Bent—*To Prevent Horses Cribbing.*

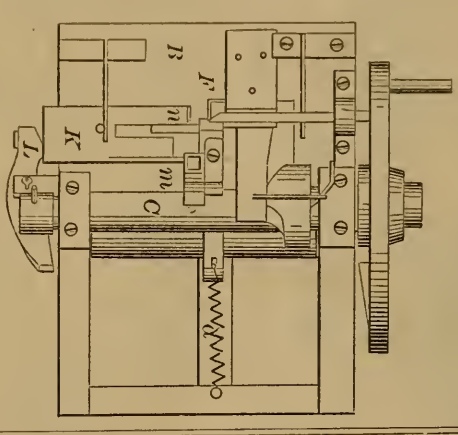


79438—M. L. Best—*For Forming Bread Pans.*

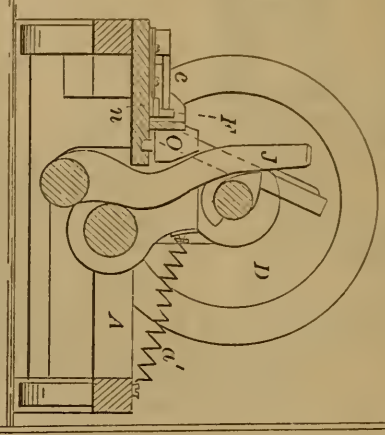


79441—J. W. Boughton—*Paper File.*

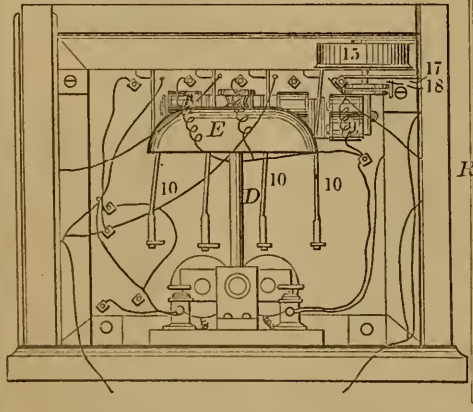




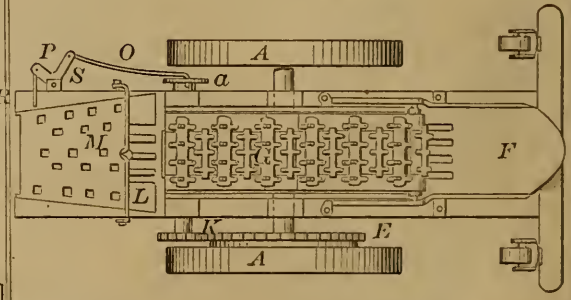
79442—Bryson & Potter—*Spike Machine.*

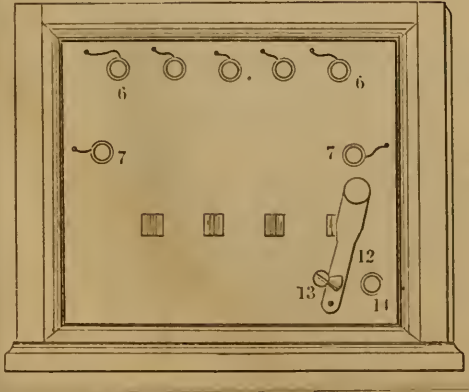


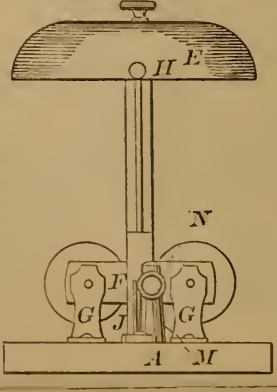
79440—E. Blunt, Jr.—*Burglar and Fire Alarm.*

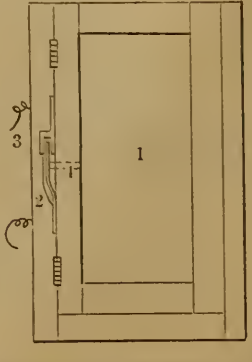


79439—J. W. Blodgett—*Potato Digger.*

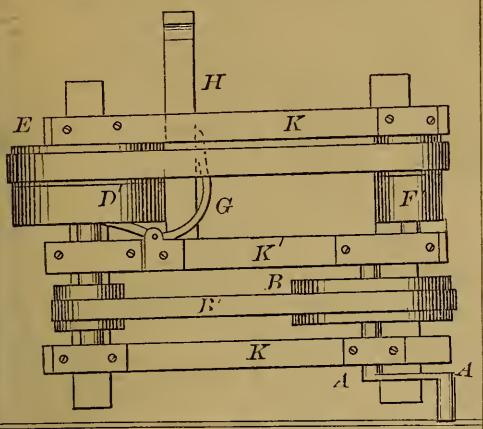




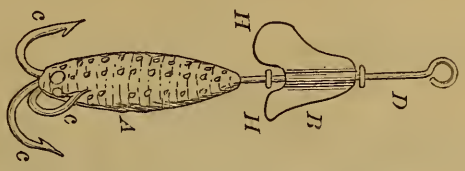




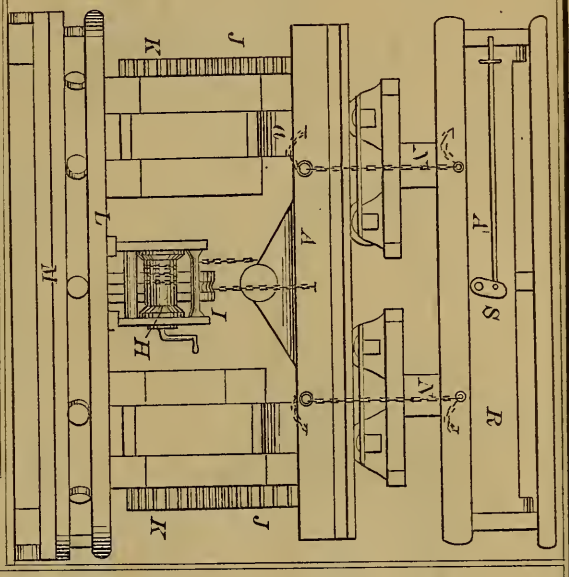
79443—E. Buck—*Belt Shipper.*



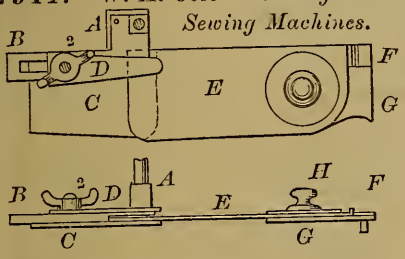
79446—J. B. Christian—*Fish Hook.*



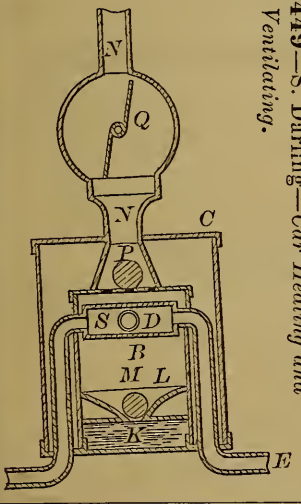
79445—W. Chisholm—*Dumping Car.*



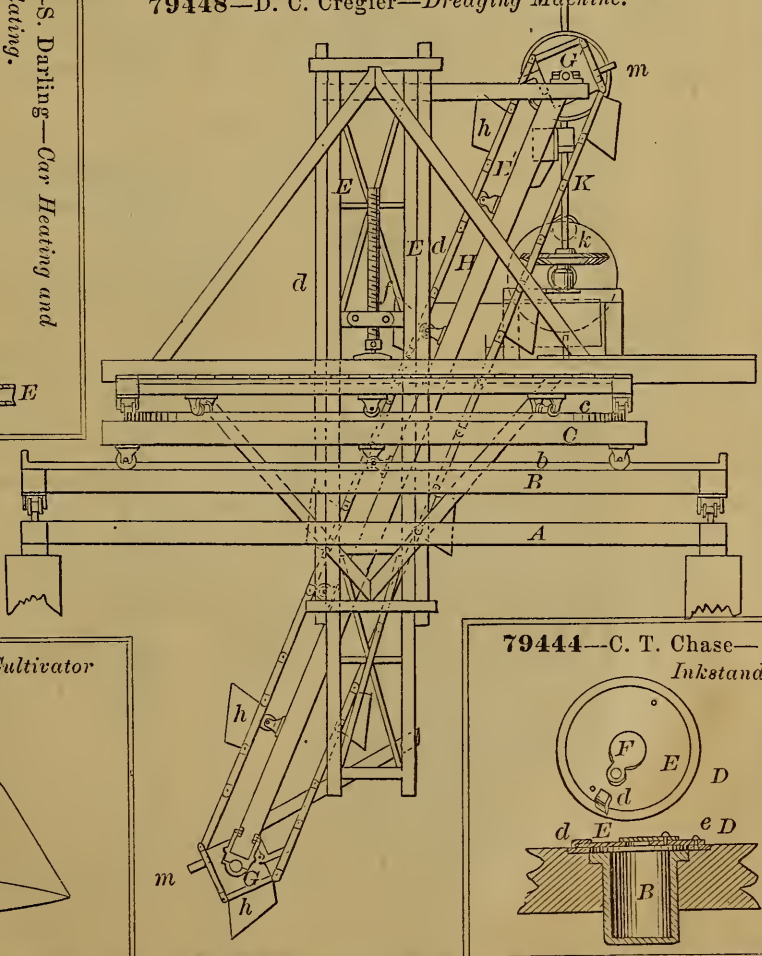
79447—W. H. Cole—*Tucking Device for Sewing Machines.*



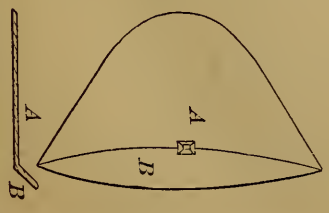
79449—S. Darling—*Car Heating and Ventilating.*



79448—D. C. Cregier—*Dredging Machine.*

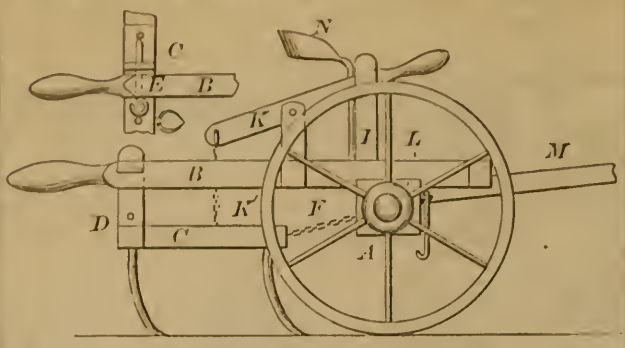


79451—D. Dean—*Cultivator Tooth.*

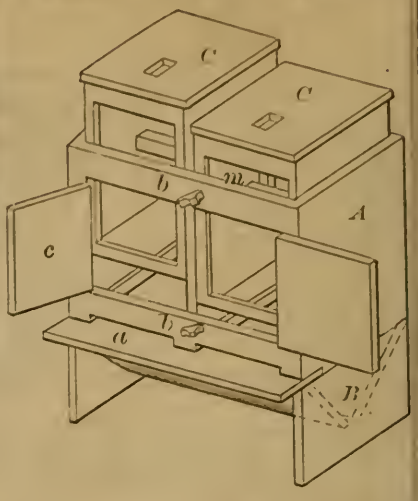


79444—C. T. Chase—*Inkstand.*

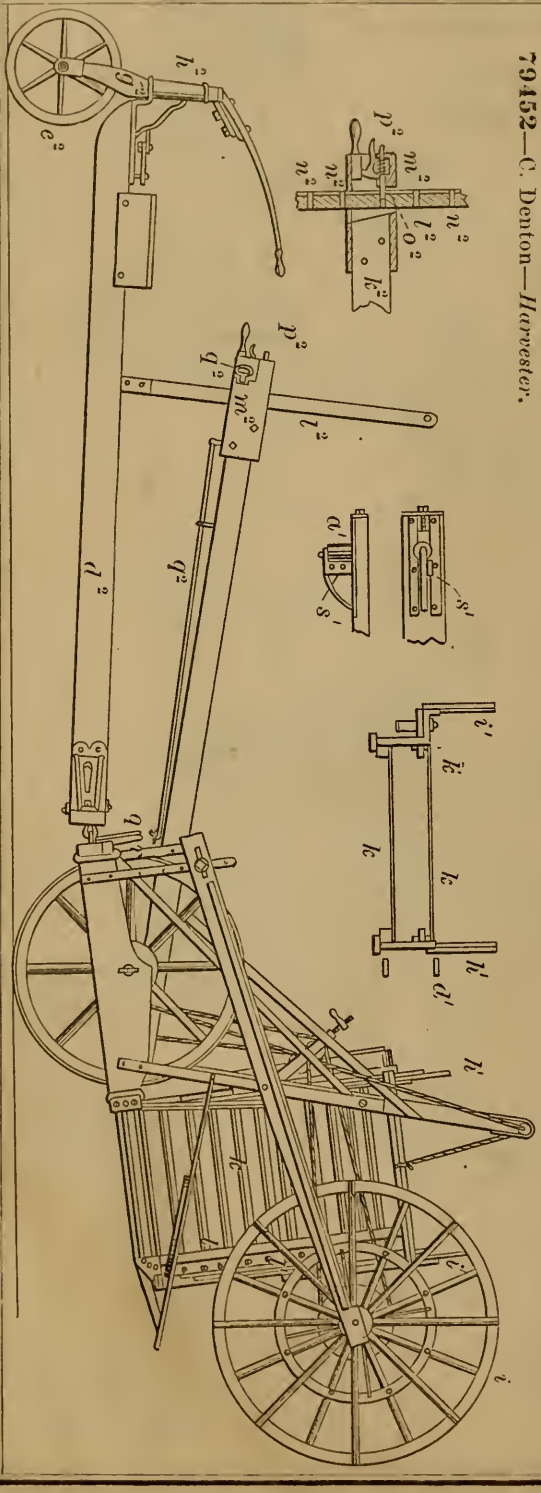
79450—J. H. Davey—*Cultivator.*



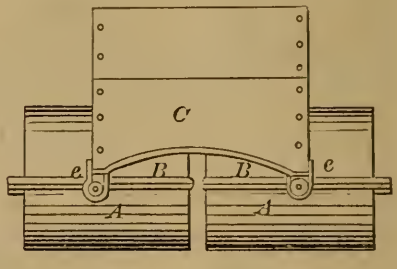
79451—W. J. Elvin—*Beehive.*



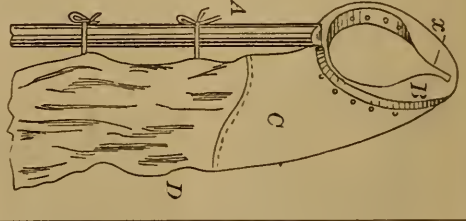
79452—C. Denton—*Harvester.*



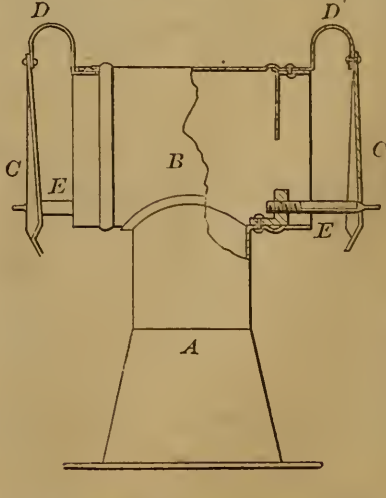
79456—A. L. Chubb—*Field Roller.*



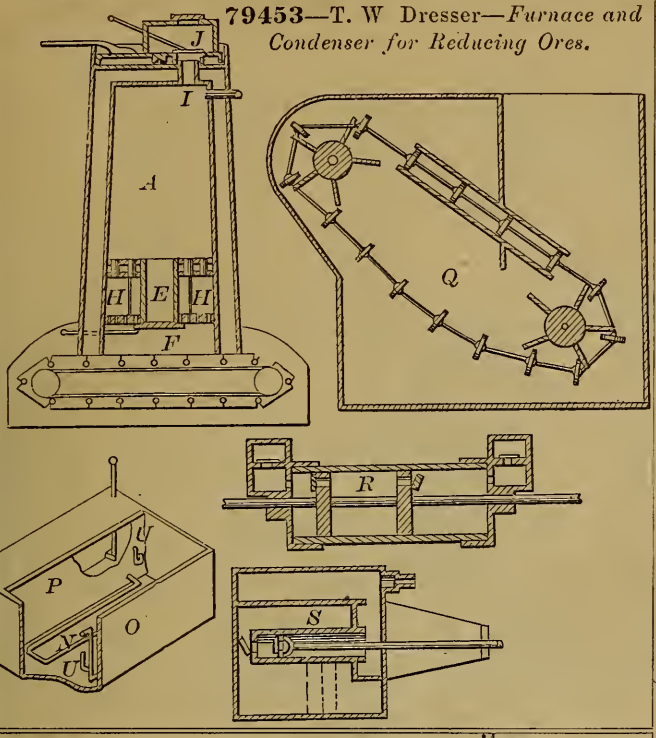
79455—R. Evans—*Fruit Picker.*



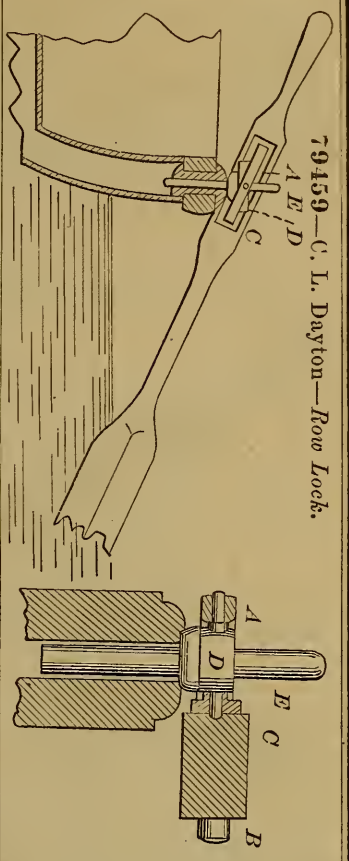
79457—A. E. Clement—*Chimney Cowl.*



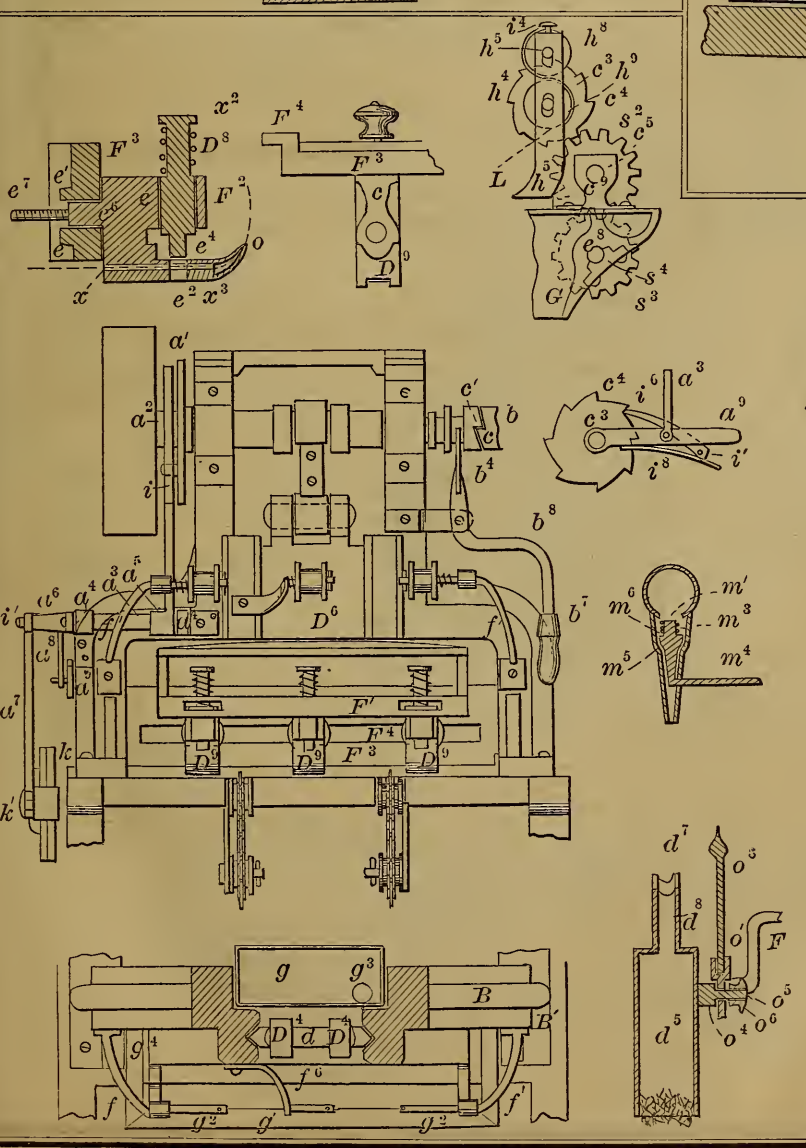
79453—T. W Dresser—*Furnace and Condenser for Reducing Ores.*



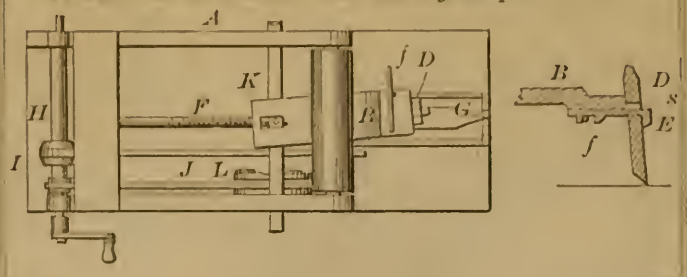
79459—C. L. Dayton—*Row Lock.*



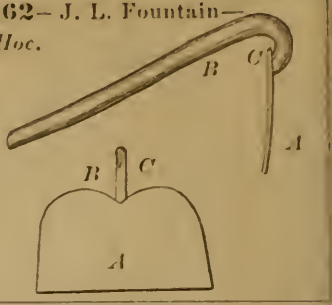
79460—C. H. Denison—*For Applying Cloth Patches to Paper Collars.*



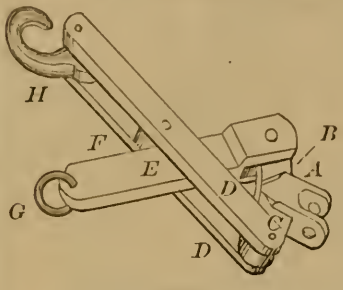
79461—M. H. Fisher—*For Making Rasps.*



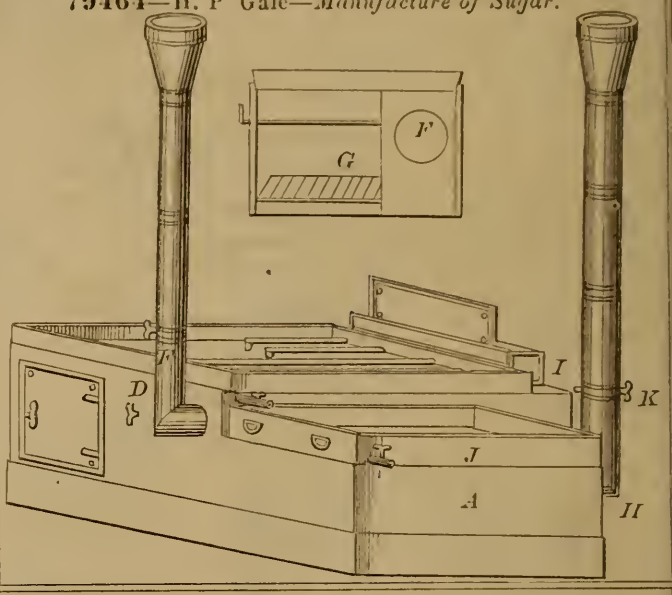
79462—J. L. Fountain—*Hoe.*



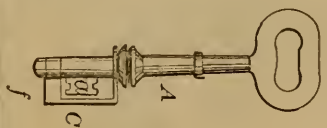
79463—J. Fowler—*Clevis.*



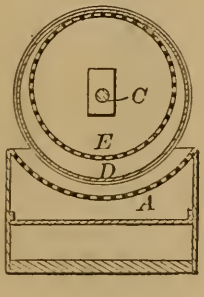
79464—H. P Gale—*Manufacture of Sugar.*



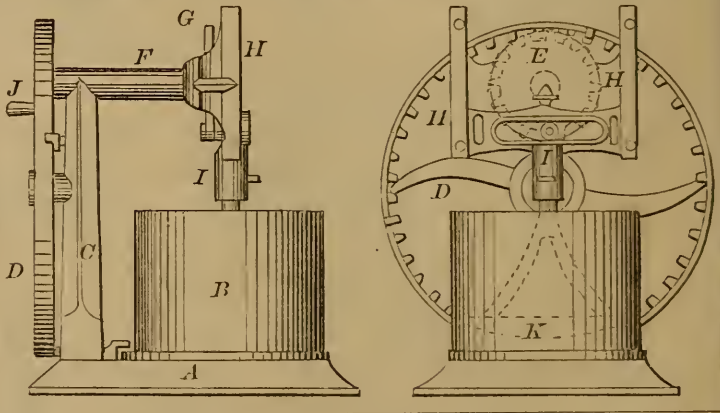
79466—F. Greene—*Door Key.*



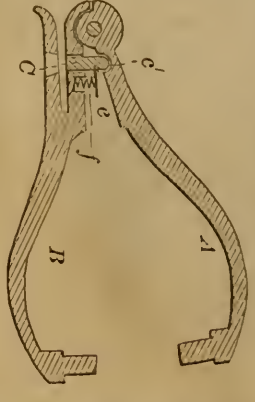
79469—T. Heermans—*Coffee Roaster.*



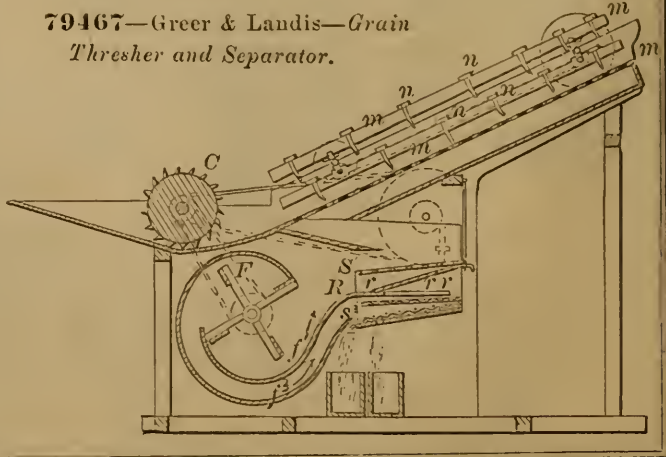
79465—C. L. Gilpatrie—*Meat Chopper.*



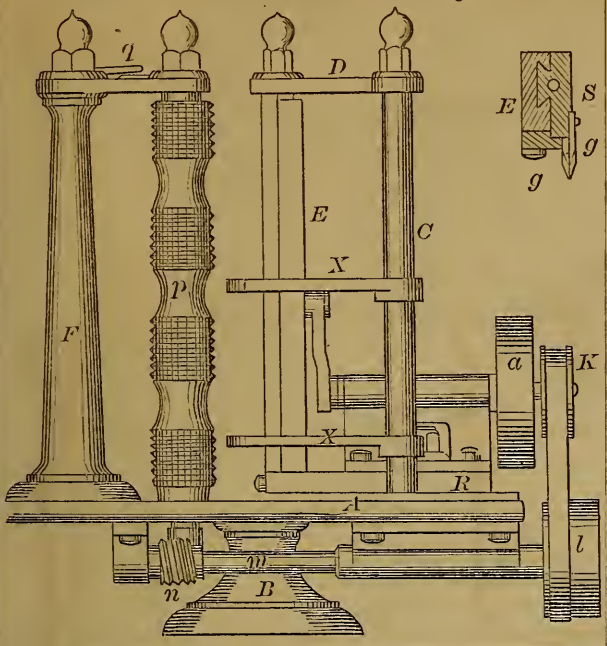
79470—W. Hill—*Ticket Punch.*



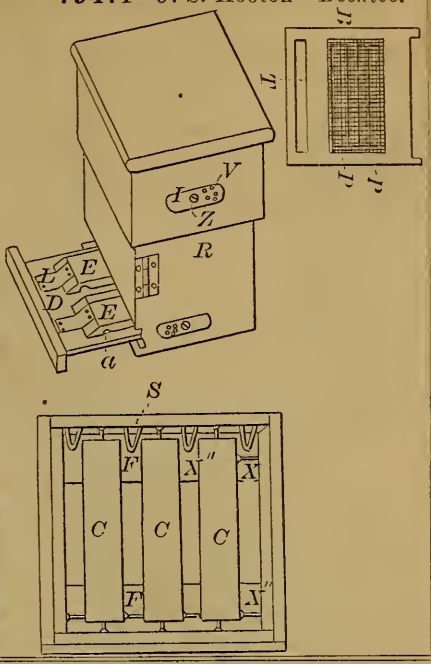
79467—Greer & Landis—*Grain Thresher and Separator.*



79468—C. F. Harlow—*For Trimming Bristles.*

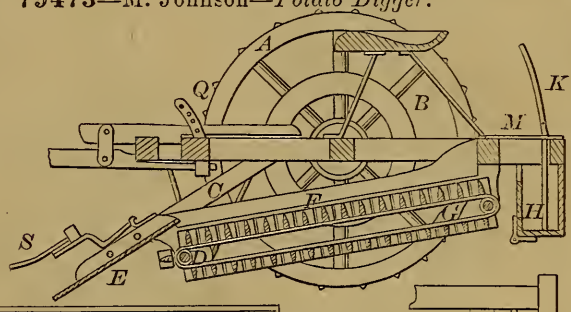


79471—J. S. Hooton—*Beehive.*

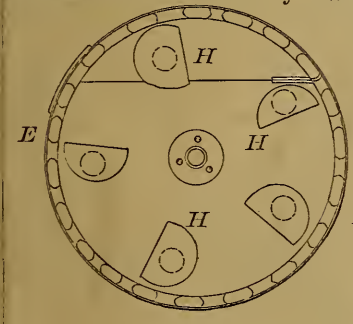


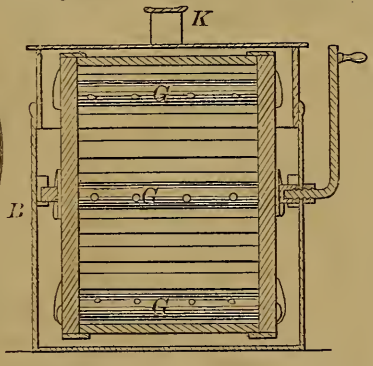
79475—H. K. Jones—*Balancing Polishing Wheel.*

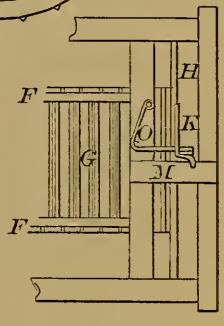
79473—M. Johnson—*Potato Digger.*



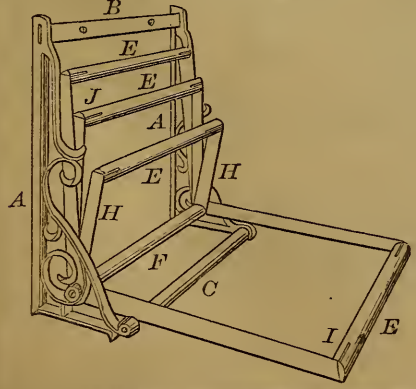
79477—G. H. Kidney—*Washing Machine.*



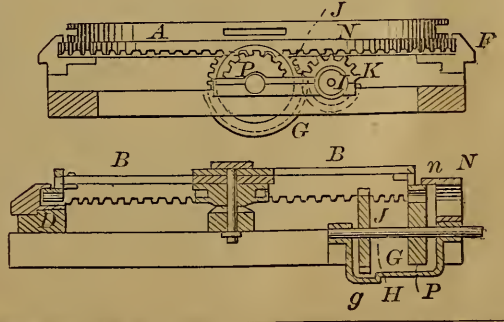




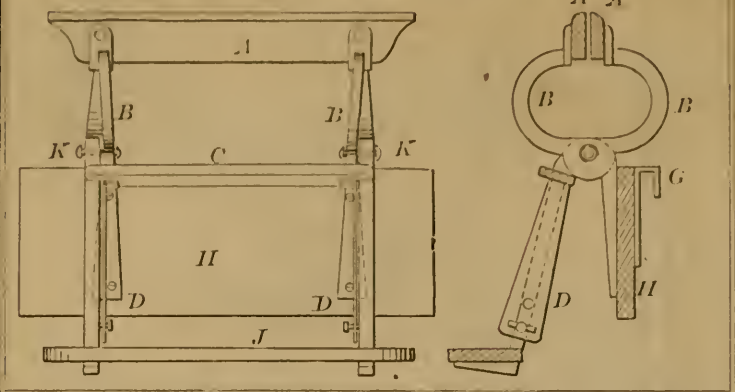
79474—W. Johnston—*Clothes Dryer.*



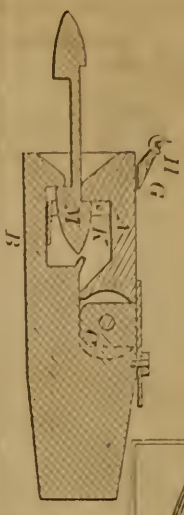
79476—I. Keller—*Horse Power.*



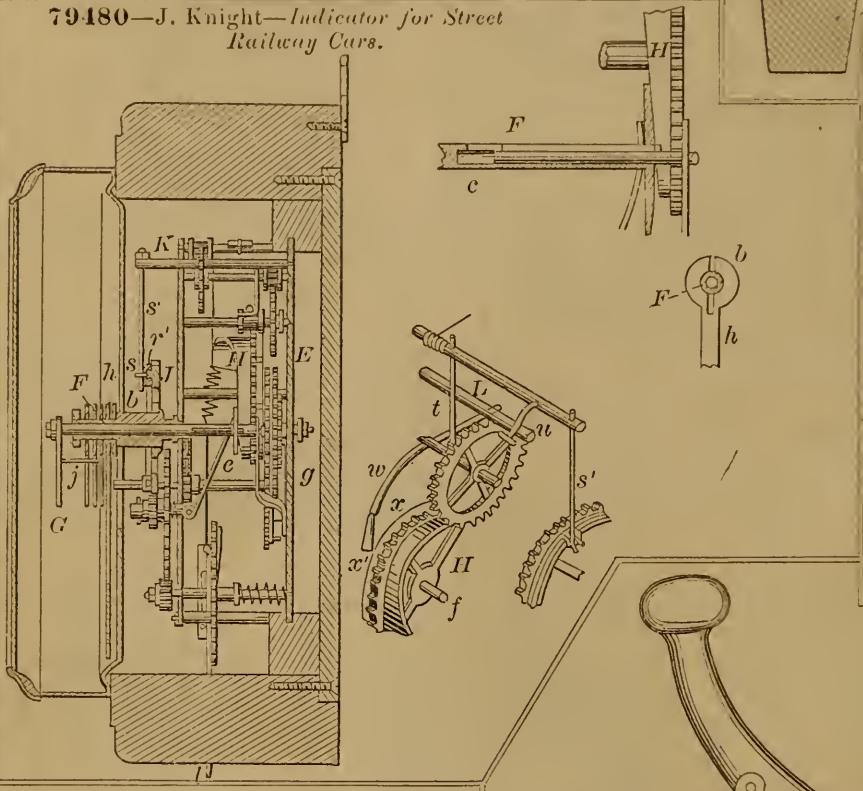
79178—W. N. Kingston—*Saw Clamp.*



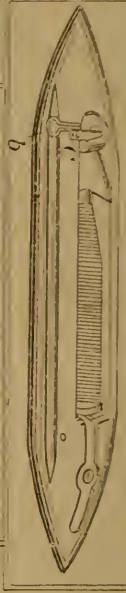
79181—Ph. Knobbock—*Car Coupling.*



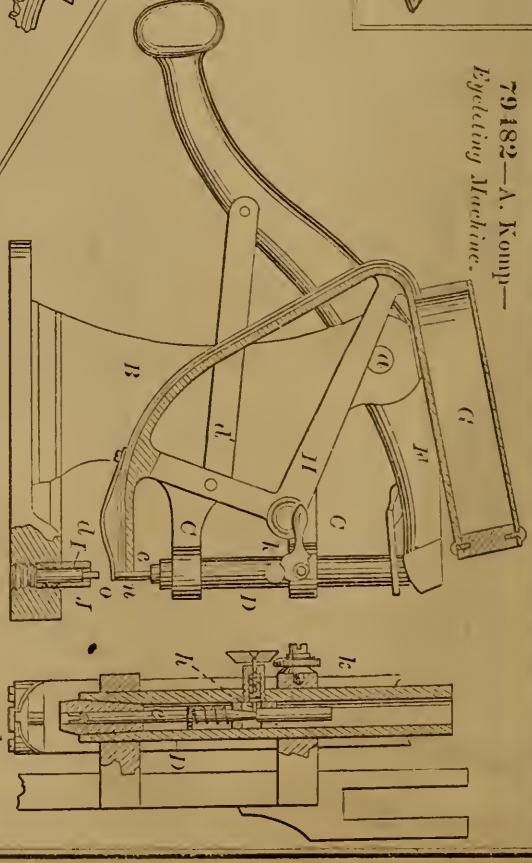
79480—J. Knight—*Indicator for Street Railway Cars.*



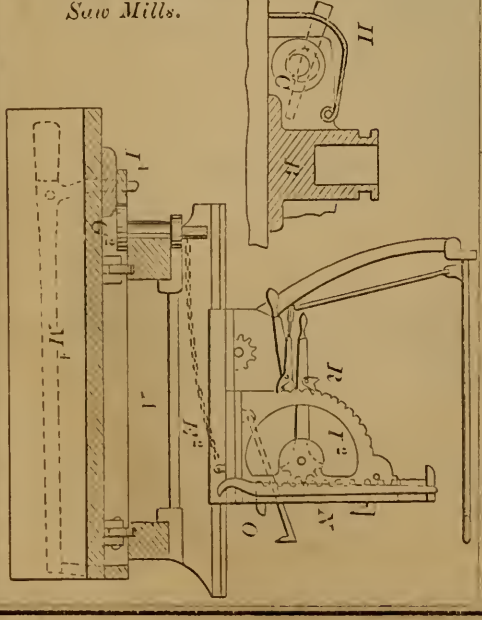
79183—P. Laflin—*Shuttle.*



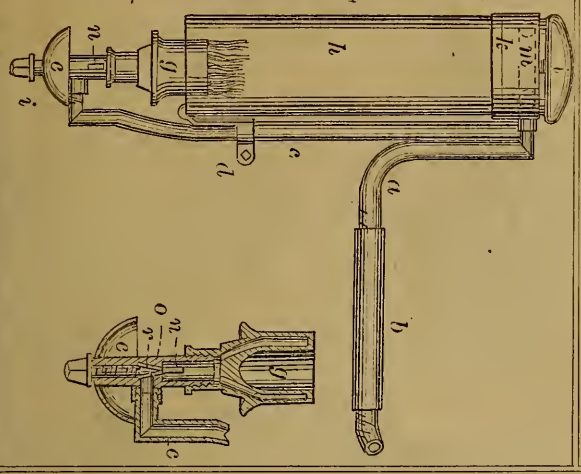
79182—A. Komp—*Ejecting Machine.*



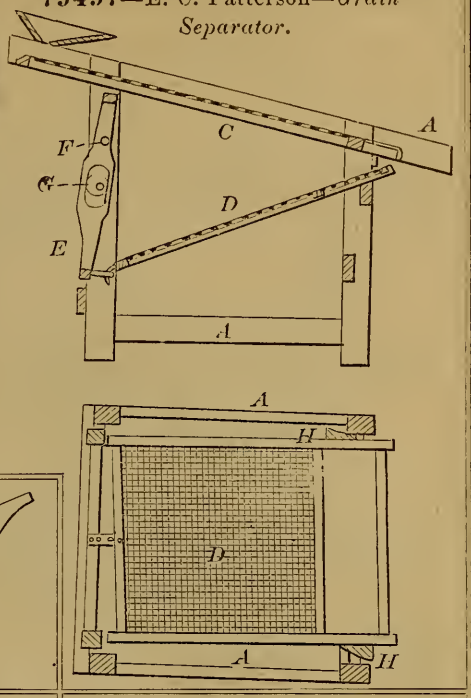
79484—D. Lane—*Head Block for Saw Mills.*



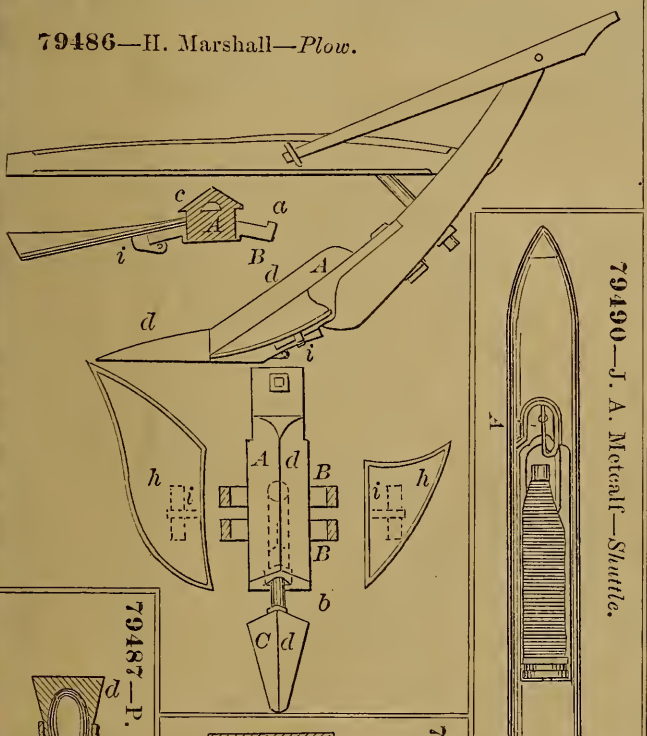
79485—C. B. Loveless—*Vapor Burner.*



79497—E. C. Patterson—*Grain Separator.*

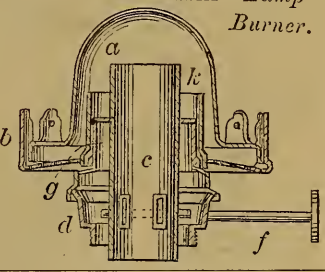


79486—H. Marshall—*Plow.*

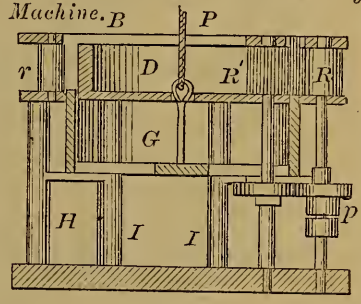


79490—J. A. Metcalf—*Shuttle.*

79488—R. S. Merrill—*Lamp Burner.*

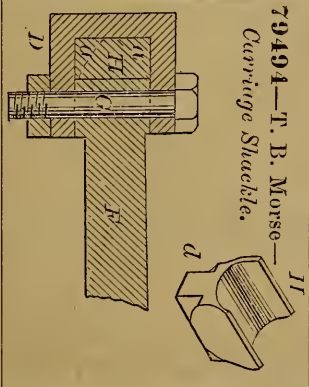


79489—E. Mets—*Wood Bending Machine.*

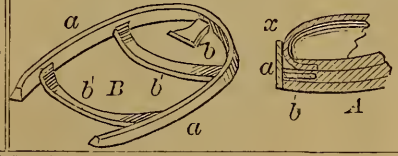


79487—P. J. McElroy—*Medicine Dropper*

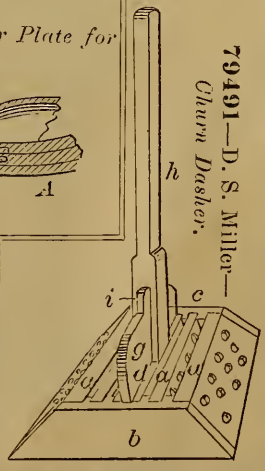
79494—T. B. Morse—*Carriage Shackle.*



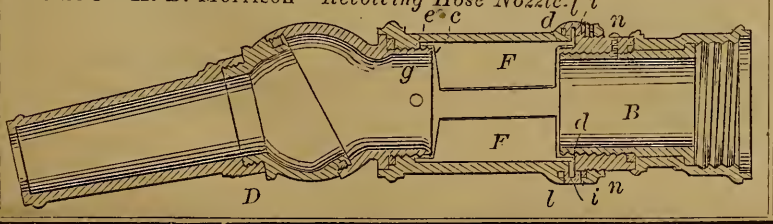
79492—S Minges—*Wear Plate for for Boots and Shoes.*



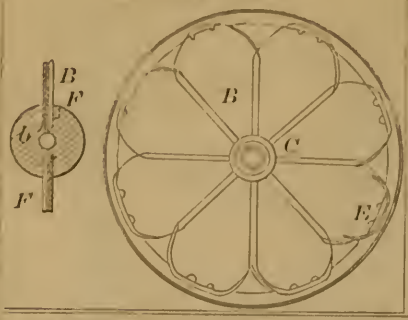
79491—D. S. Miller—*Churn Dasher.*



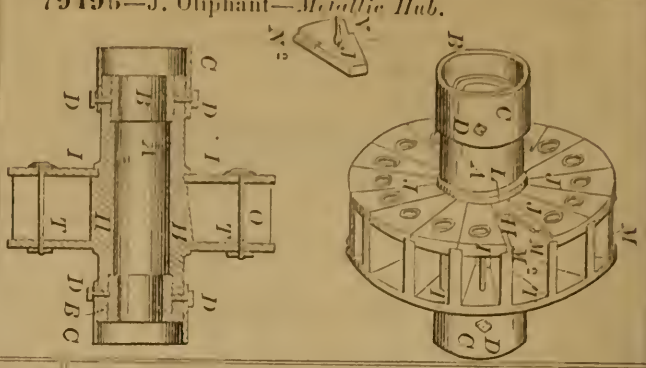
79493—H. B. Morrison—*Revolving Hose Nozzle.*



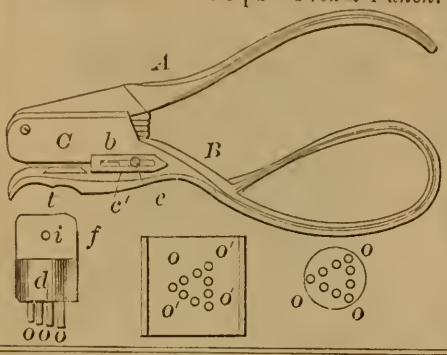
79495—J. & T. Nevison, Jr.—*Carriage Wheel.*



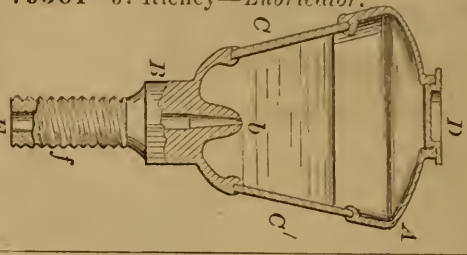
79496—J. Oliphant—*Metallic Hub.*



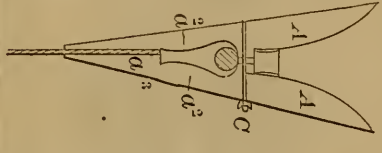
79498—W. J. Phelps—*Ticket Punch.*



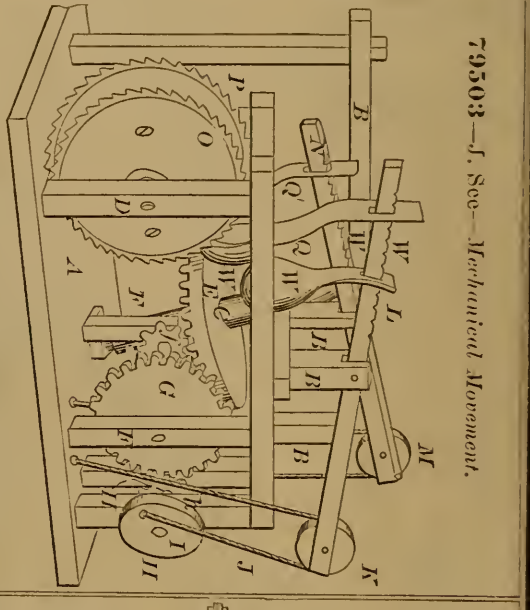
79501—J. Richey—*Lubricator.*



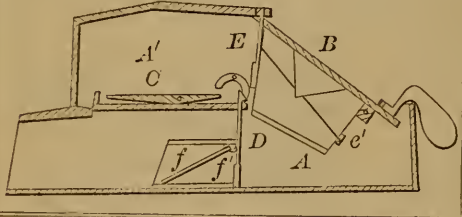
79502—J. G. Roth—*Clothes Pin.*



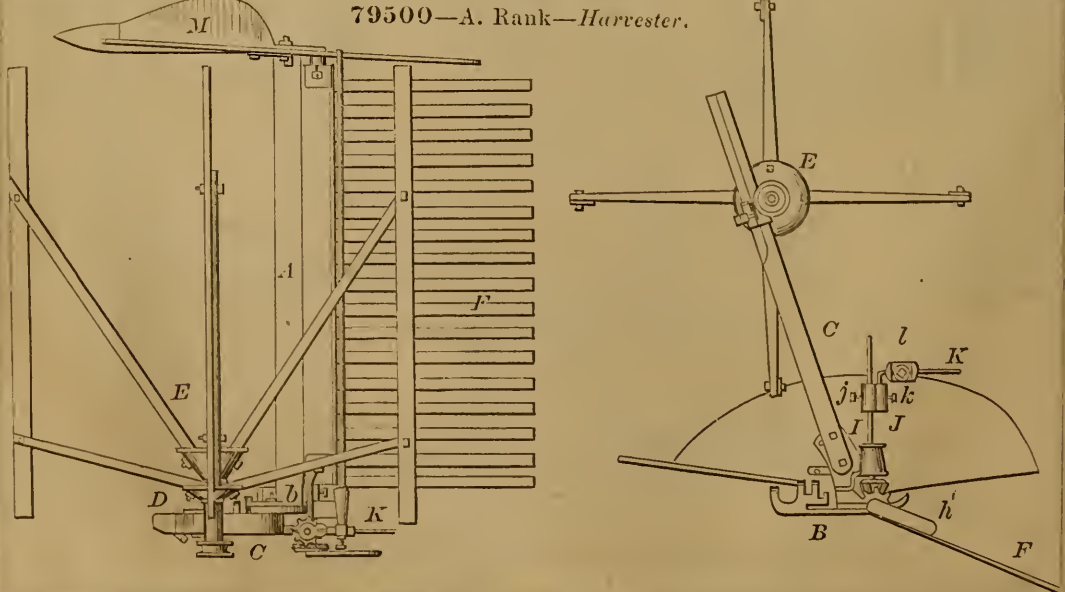
79503—J. See—*Mechanical Movement.*



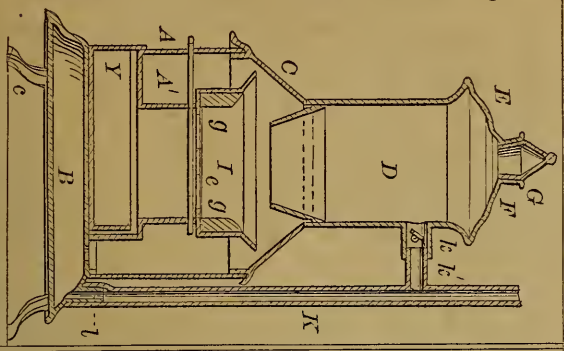
79506—E B. Smith—*Animal Trap.*



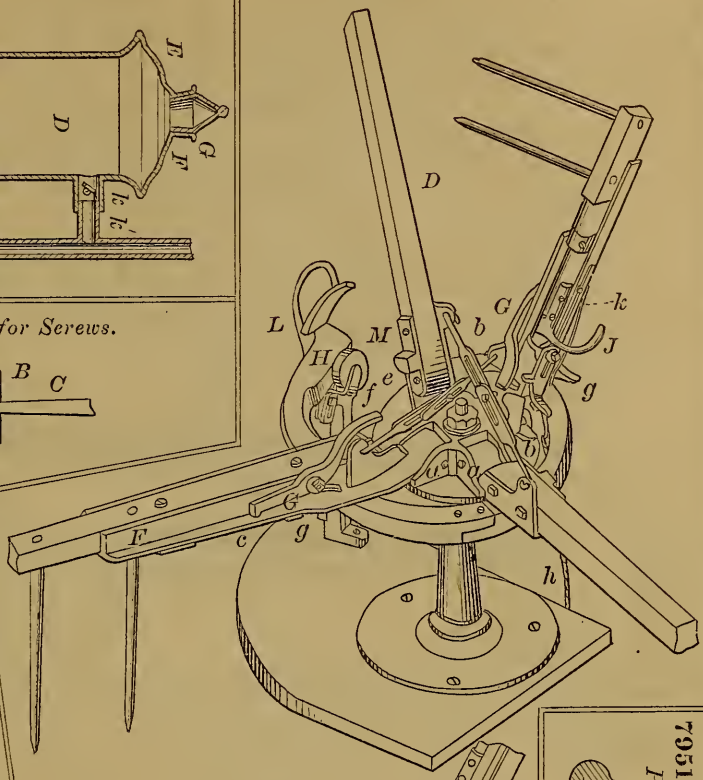
79500—A. Rank—*Harvester.*



79505—S. B. Sexton—*Base Burning Stove.*

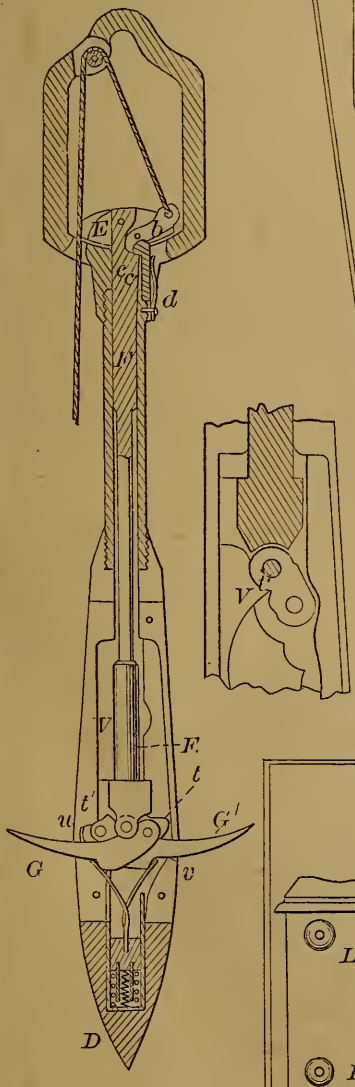


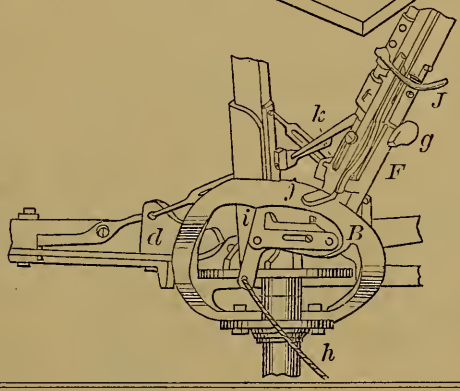
79507—E. M. Smith—*Harvester Rake.*



79509—N. Smith—*Guide for Screws.*

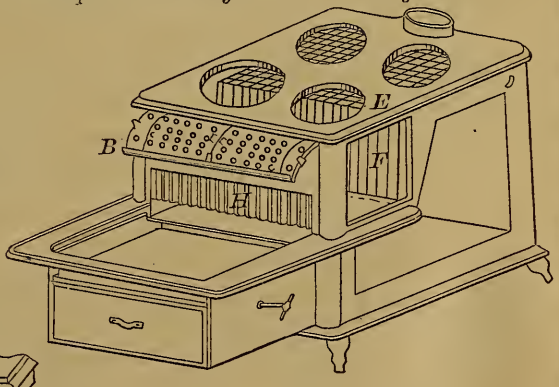
79512—G. H. Strough—*Horse Hay Fork.*

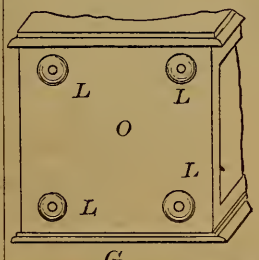


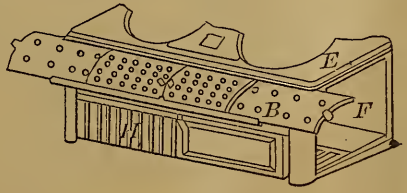


79511—A. C. Spencer—*Wood and Paper for Cabinet Purposes.*

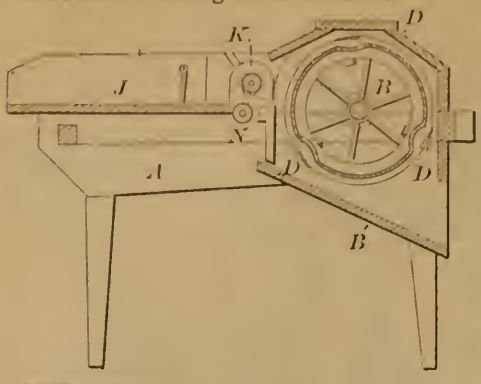
79510—J. Spear—*Cooking Stove and Range.*



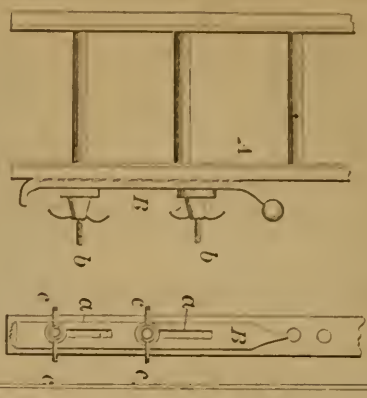




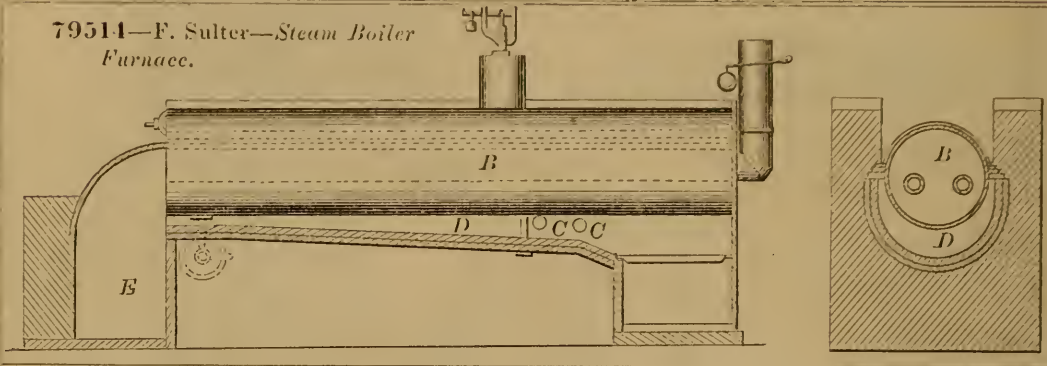
79513—D. Sturgis—*Straw Cutter.*



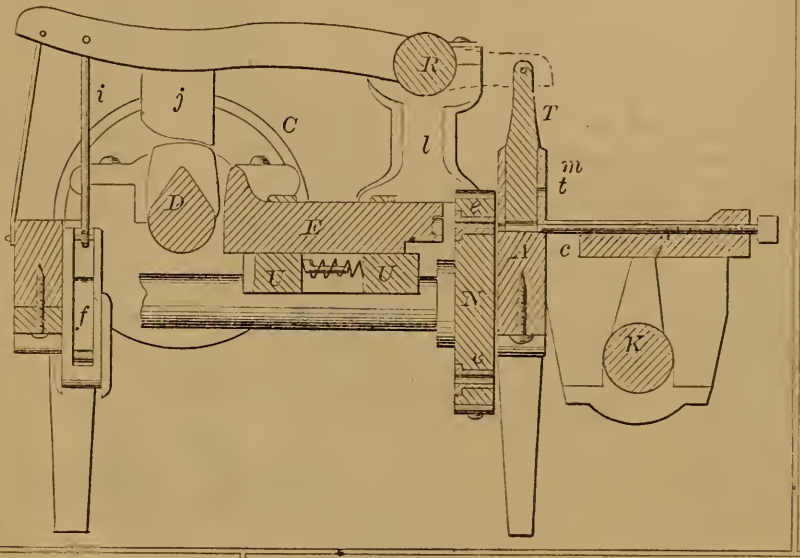
79520—Thomas & Raymond—*Ladder.*



79514—F. Sulter—*Steam Boiler Furnace.*

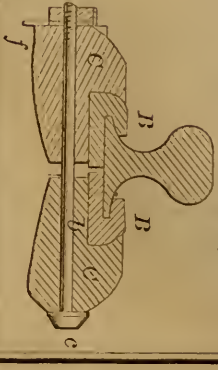


79516—J. H. Swett—*For Making Rivets.*

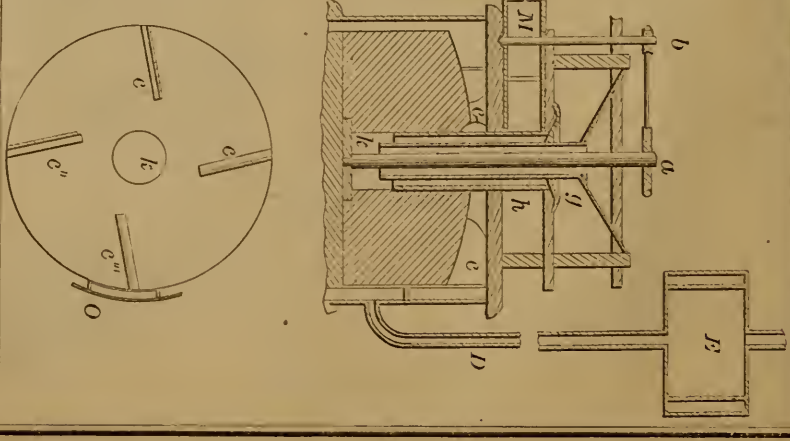


79519—S. P. Taylor—*Harness Buckle.*

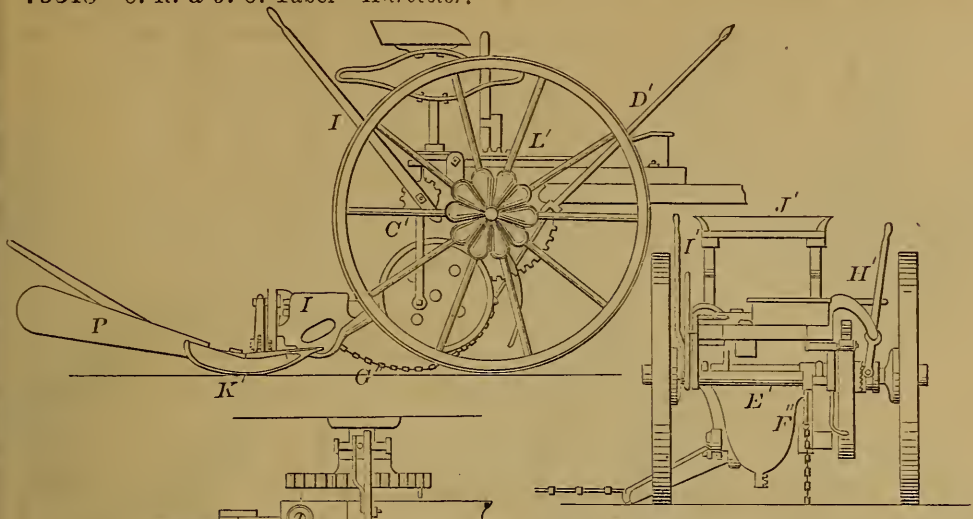
79515—J. H. Swett—*Railway Joint.*

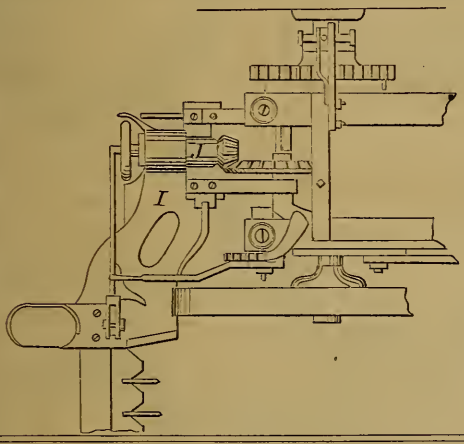


79517—R. Symes—*For Ventilating Mill Stones.*

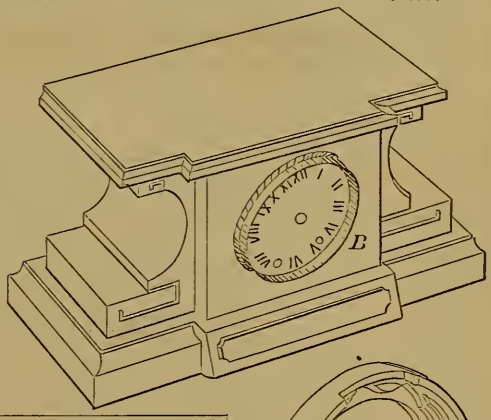


79518—C. R. & J. O. Taber—*Harvester.*

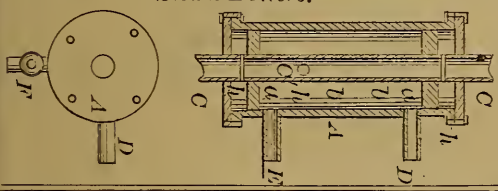


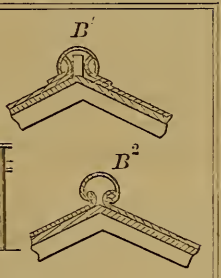


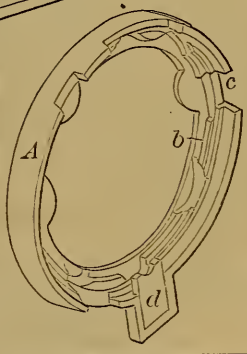
79521—Vance & Smith—*Clock Case.*



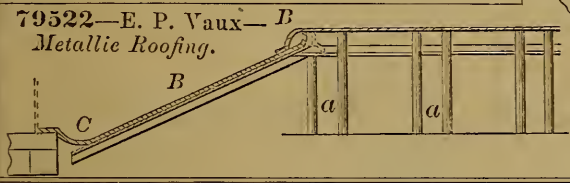
79523—A. H. Walker—*Water Heater for Steam Boilers.*



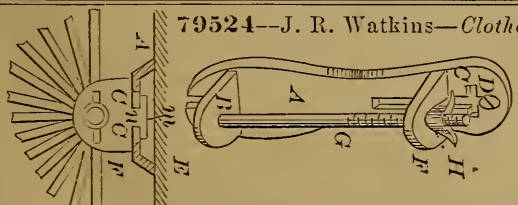




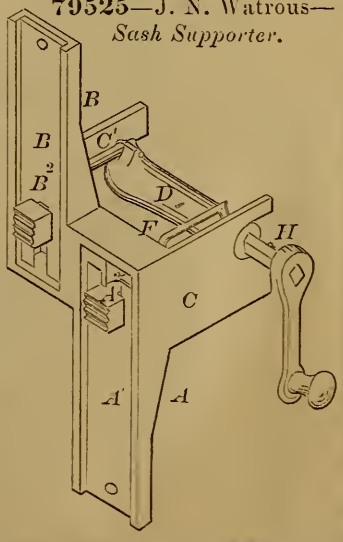
79522—E. P. Vaux—*Metallic Roofing.*



79524—J. R. Watkins—*Clothes Dryer.*

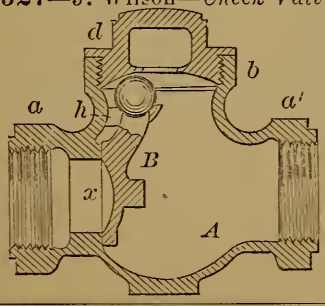


79525—J. N. Watrous—*Sash Supporter.*

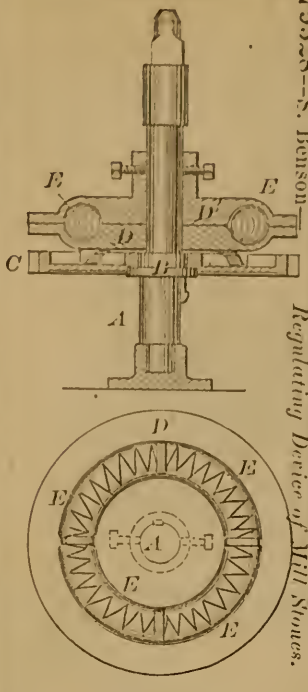


79526—G. Wedekind—*Lamp Shade.*

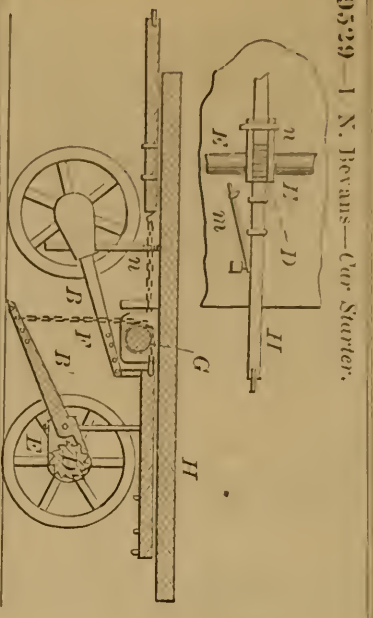
79527—J. Wilson—*Check Valve.*



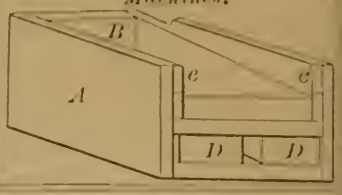
79528—S. Benson—*Regulating Device of Mill Stones.*



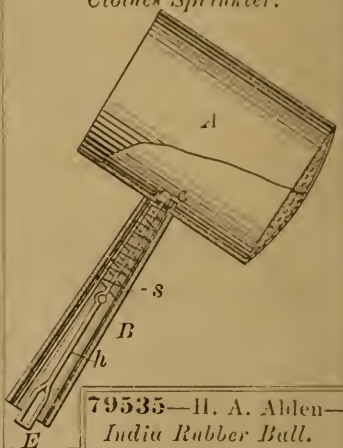
79529—I. N. Bevans—*Car Starter.*



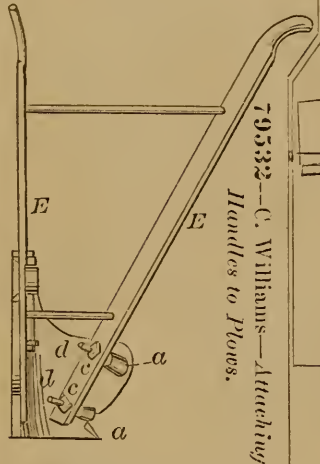
79530—J. B. Van Horn—*Clamp for Wood Bending Machines.*



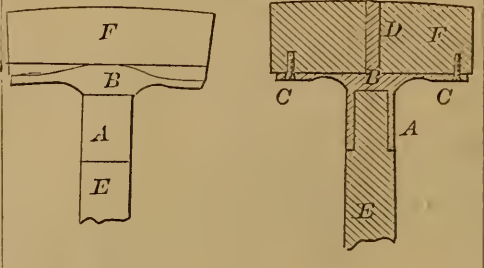
79531—J. W. Walters—*Clothes Sprinkler.*



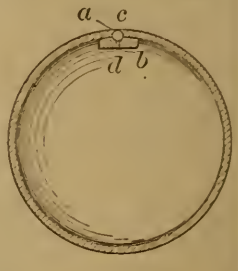
79532—C. Williams—*Attaching Handles to Plows.*



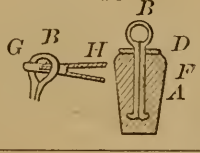
79533—G. Allen—*Spoke and Felloe Connection.*



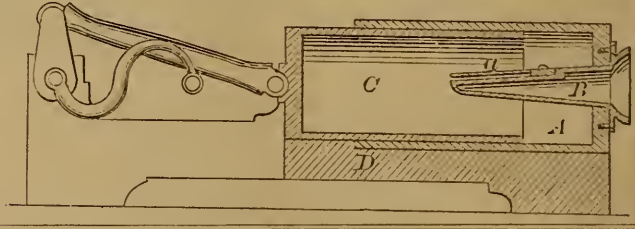
79535—H. A. Alden—*India Rubber Ball.*



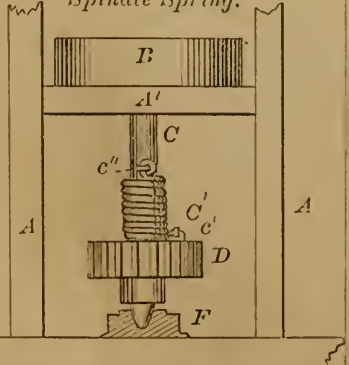
79536—J. B. Alexander—*Bottle Stopper.*



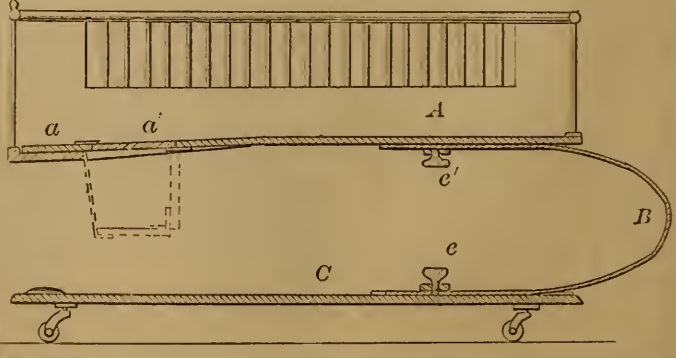
79538—J. R. Anderson—*Fog Alarm.*



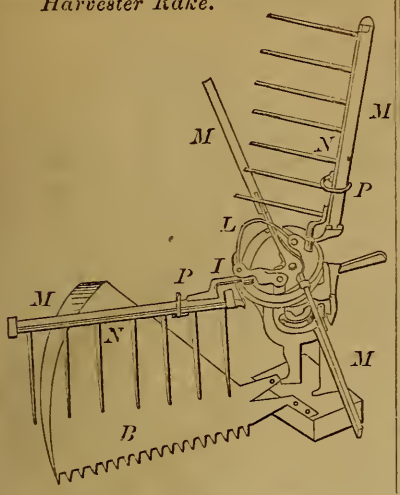
79537—T. Alsop—*Mill Spindle Spring.*

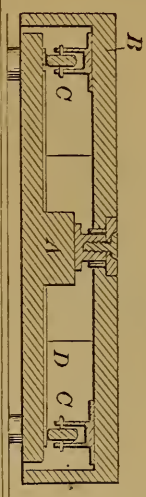


79534—G. H. Mellen—*Baby Jumper and Cradle.*



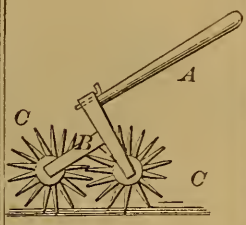
79539—C. J. Arlington—*Harvester Rake.*



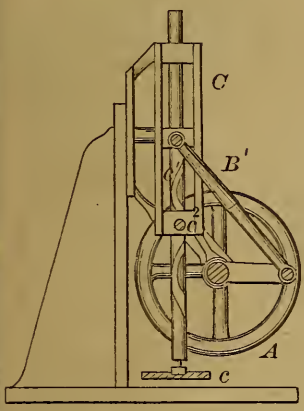


79543—T. F. Bigelow—*Vegetable Server*

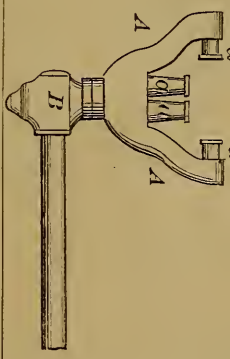
79540—J. Armstrong—*Garden Implement.*



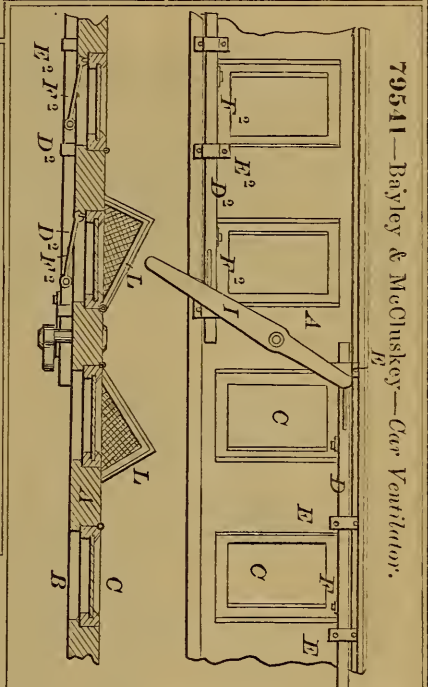
79542—S. Bessor—*Churn.*



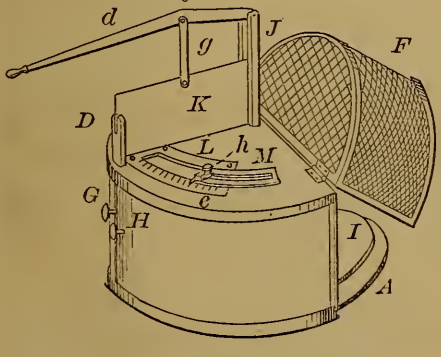
79545—Bridgman & Wellman—*Gas Burner.*

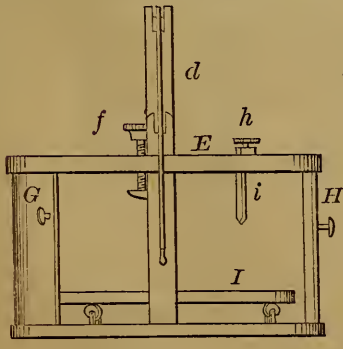


79541—Bayley & McCluskey—*Car Ventilator.*

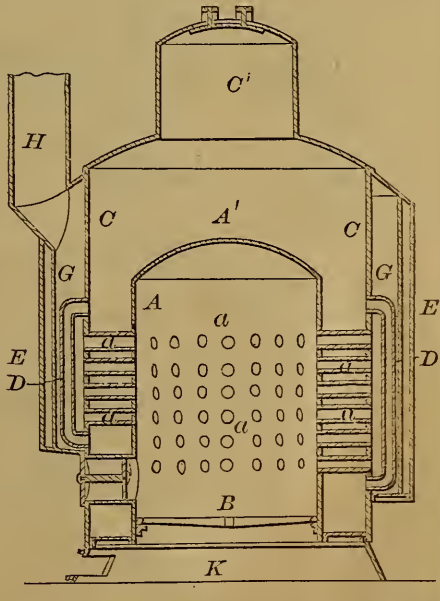


79546—E. G. Bulgin—*Cheese Safe, Gauge and Cutter.*

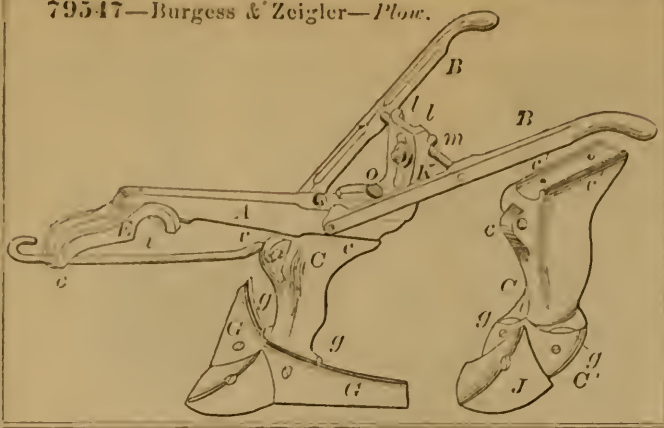




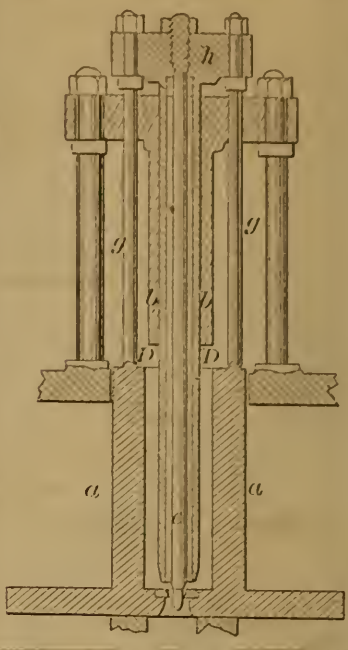
79544—W. Branagan—*Steam Generator.*



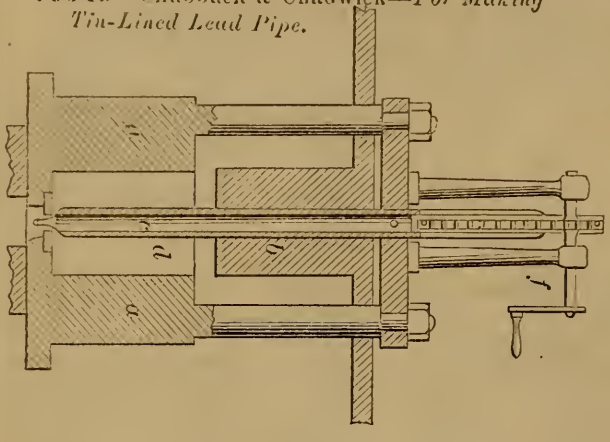
79547—Burgess & Zeigler—*Plow.*



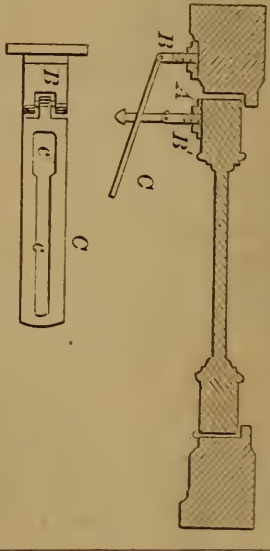
79548—S. E. Chubbuck—*For Making Tin-Lined Lead Pipe.*



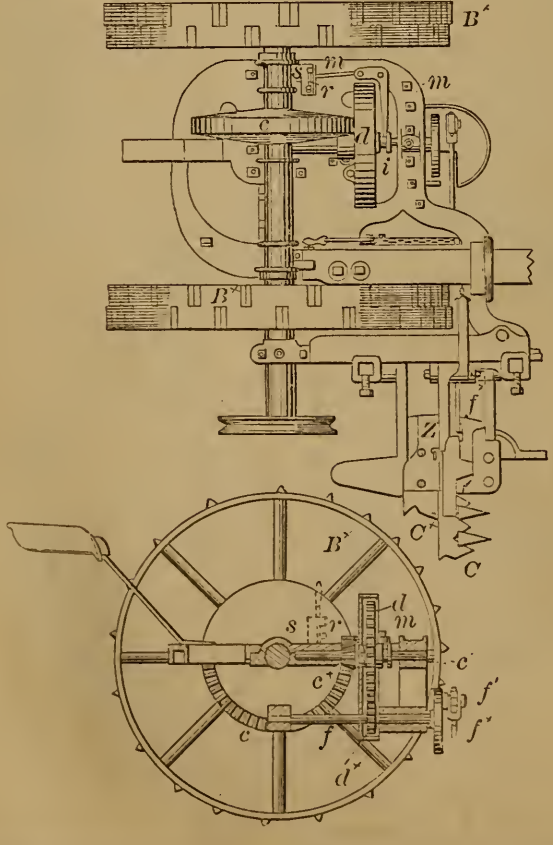
79549—Chubbuck & Chadwick—*For Making Tin-Lined Lead Pipe.*



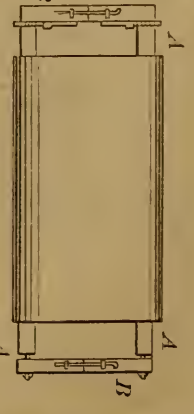
79550—E. C. Cochrane—*Fastener for Doors.*



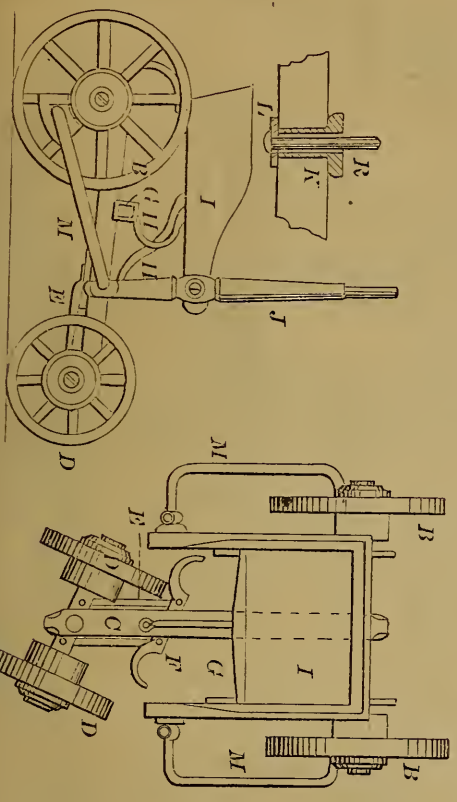
79551—J. F. Coddington—*Harvester.*



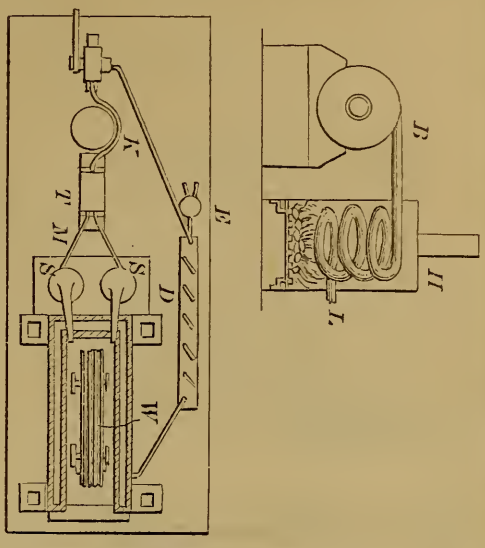
79552—Mrs. L. A. Collard—*Quilting Frame.*



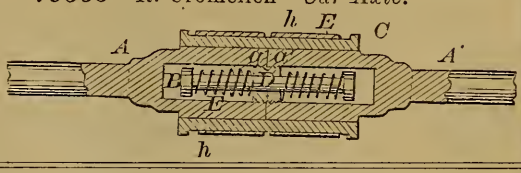
79553—B. P. Crandall—*Velocipede.*



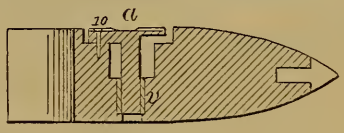
79554—C. M. Cresson—*Preserving Wood.*



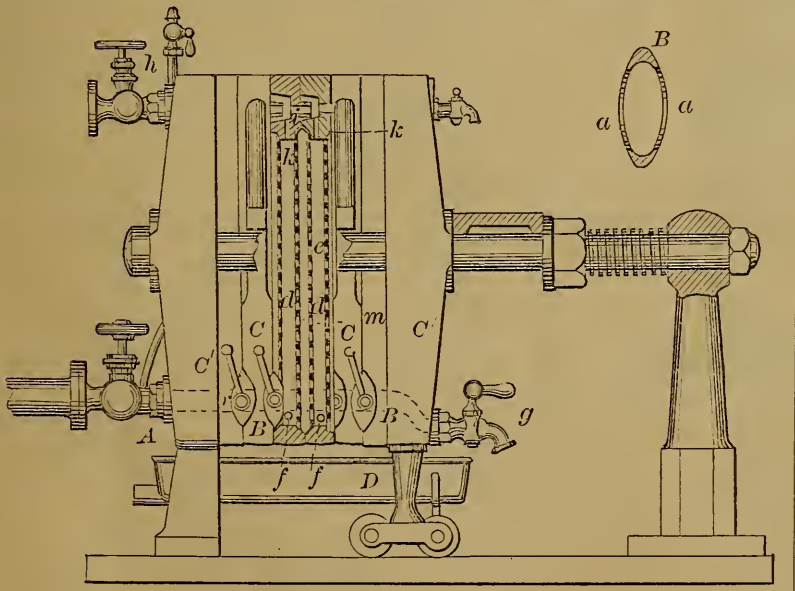
79555—R. Cromelien—*Car Axle.*



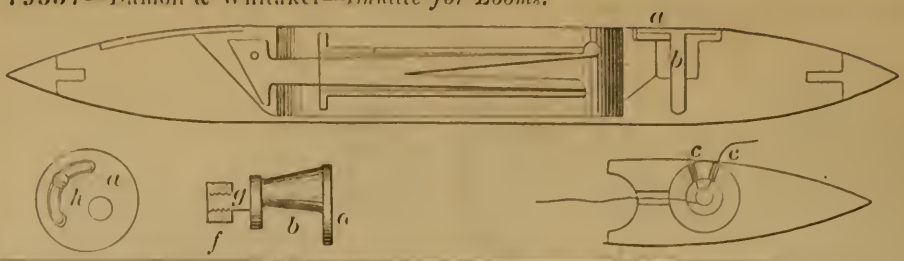
79556—Damon & Whitaker—*Shuttle.*



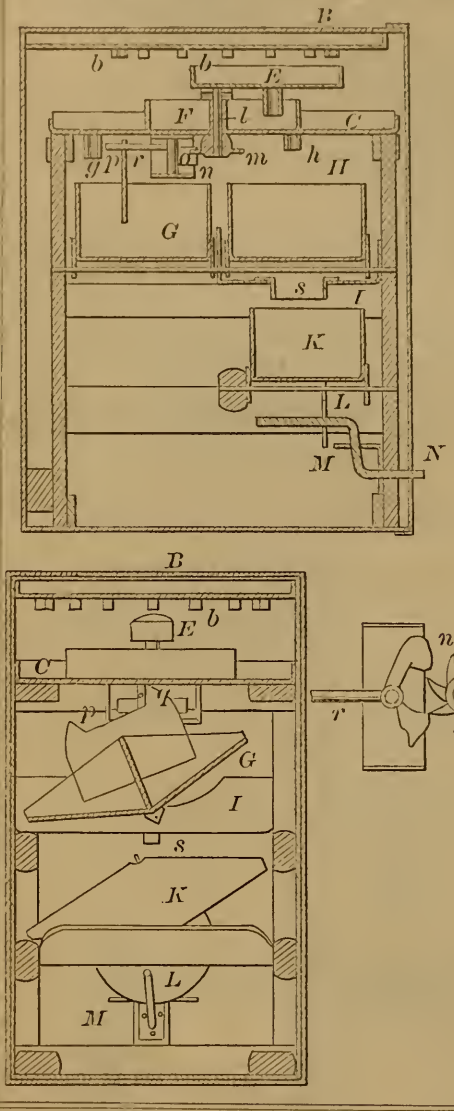
79558—A. L. G. Dehne—*For Filtering and Refining Sugar.*



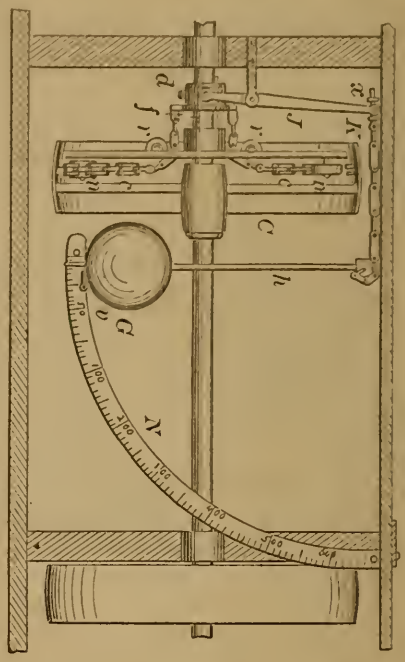
79557—Damon & Whitaker—*Shuttle for Looms.*

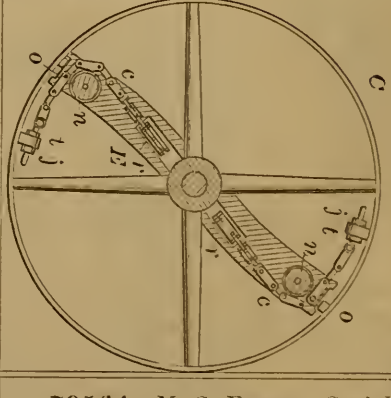


79559—W. B. Durant—*Water Meter.*

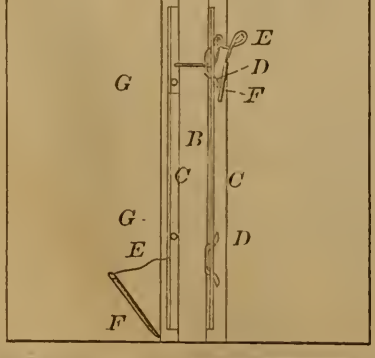


79561—J. Emerson—*Dynamometer.*

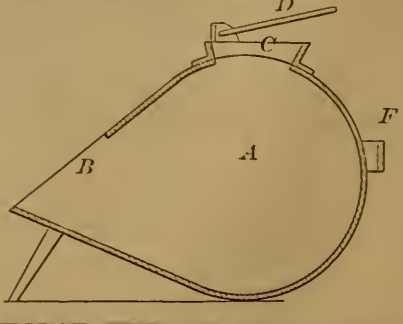




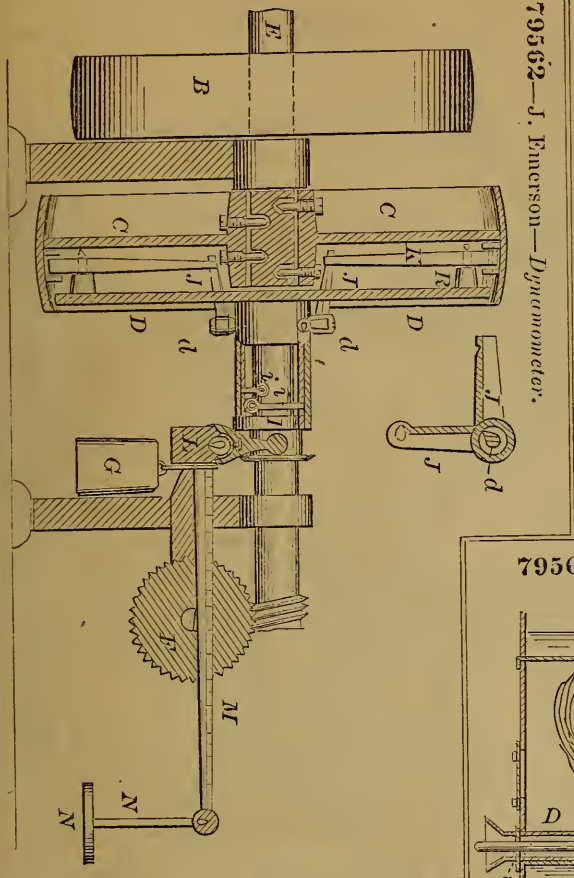
79560—G. W. Emerson—*Temporary Binder.*



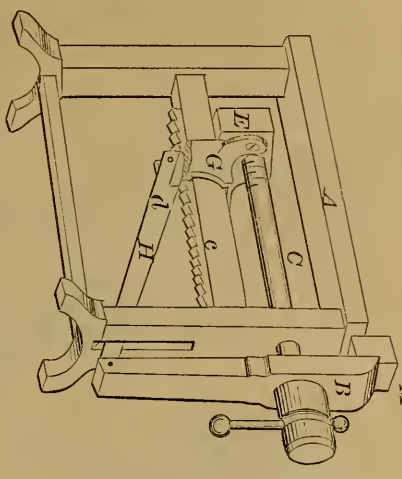
79564—M. G. Fagan—*Coal Hod.*



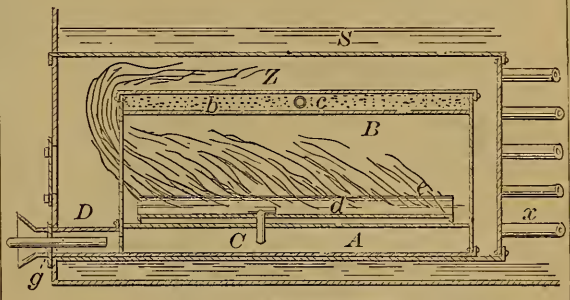
79562—J. Emerson—*Dynamometer.*

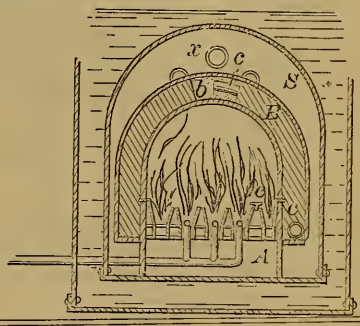


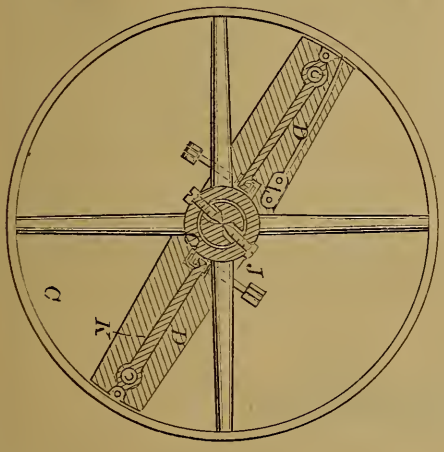
79565—O. V. Flora—*Carpenters' Vise.*



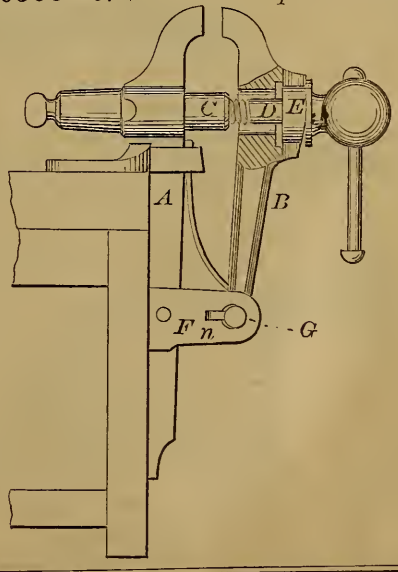
79563—H. Everett—*Hydro-Carbon Burner.*



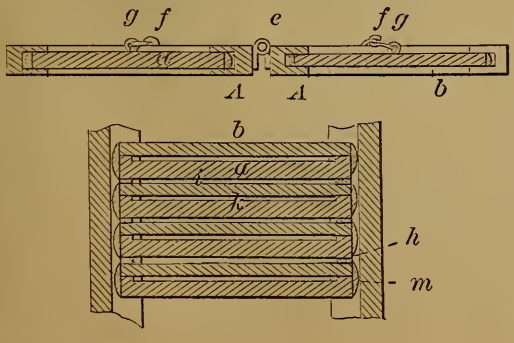




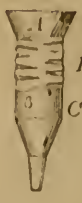
79566—O. V. Flora—*Carpenters' Vise.*

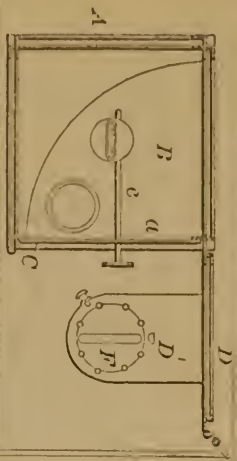


79567—A. C. Garratt—*Galvanic Battery.*

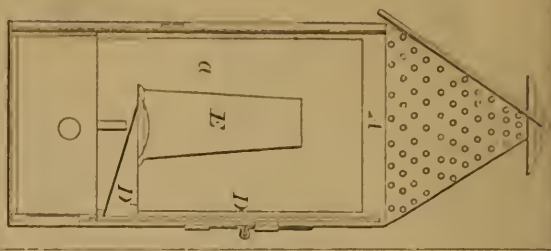


79568—B. F. Graves—*Teat Cup for Milking.*

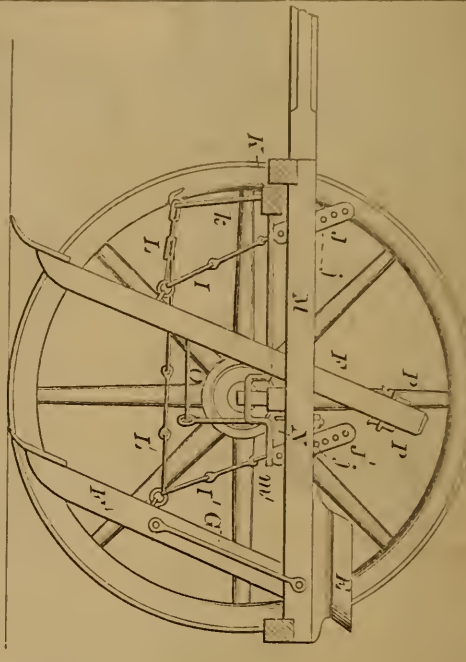




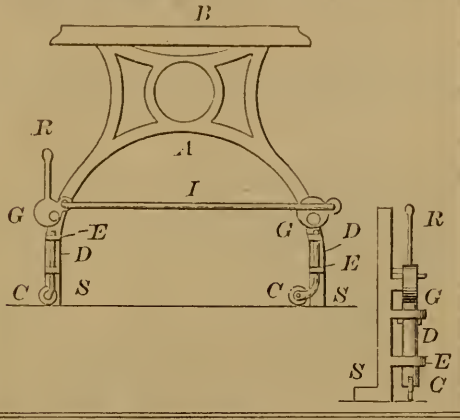
79569—E. J. Hale—*Lantern.*



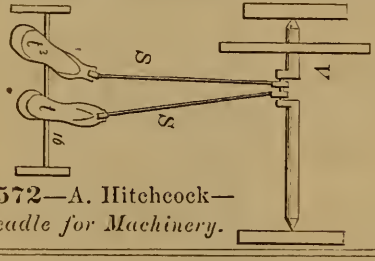
79570—W. Harvey—*Safety Cultivator.*



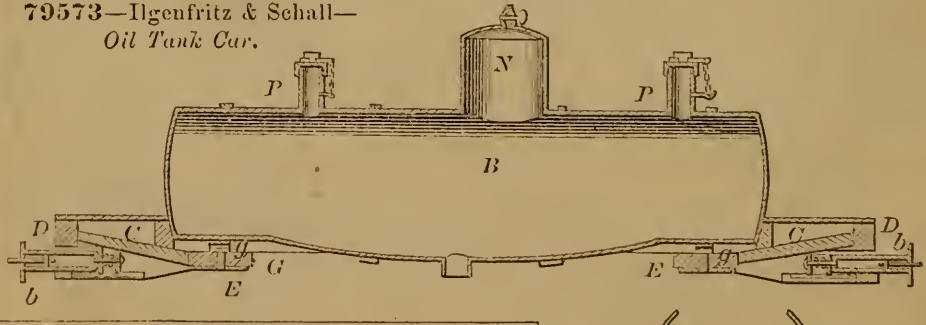
79571—Hewitt & Lynch—*Caster.*



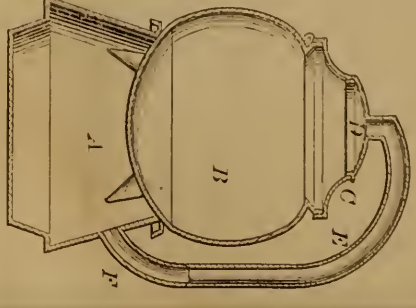
79572—A. Hitchcock—*Treadle for Machinery.*

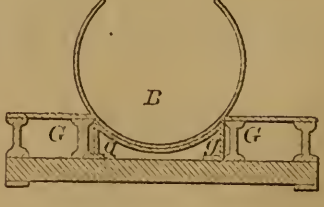


79573—Ilgenfritz & Schall—*Oil Tank Car.*

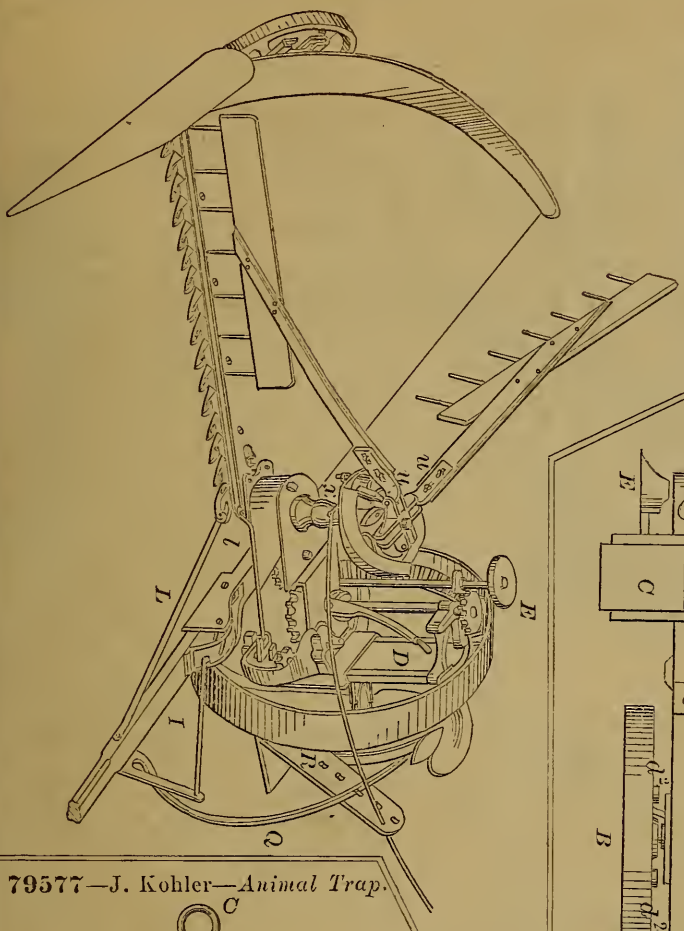


79574—C. A. Johnson—*Culinary Vessel.*

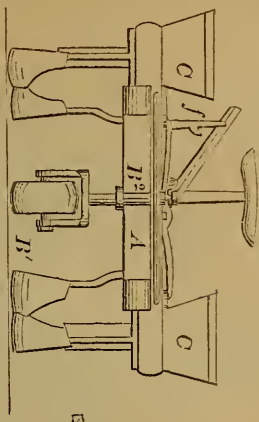


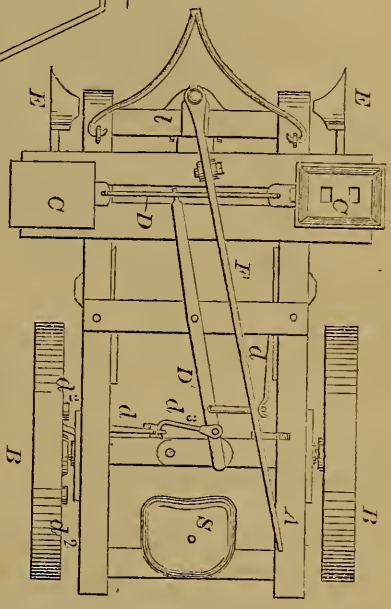


79575—S. Johnston—*Harvester.*

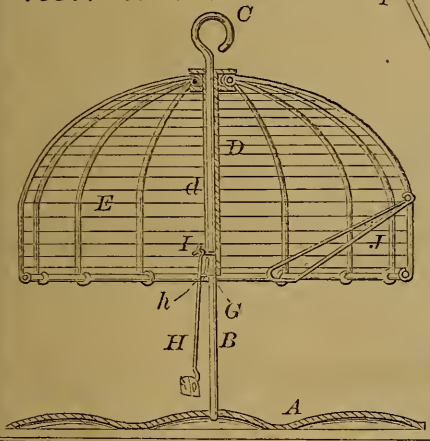


79576 Keeney & See—*Corn Planter.*

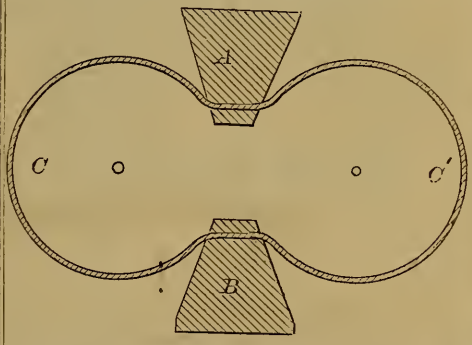




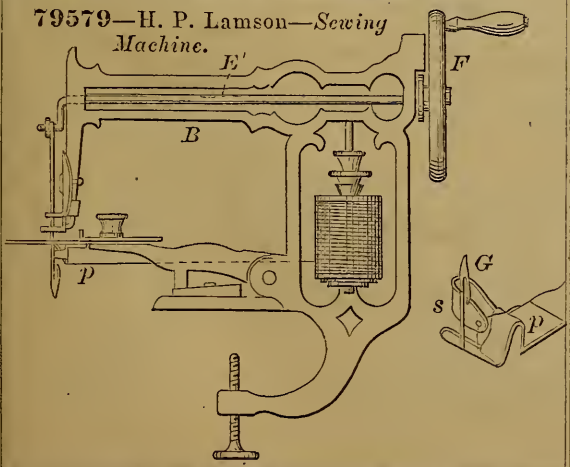
79577—J. Kohler—*Animal Trap.*



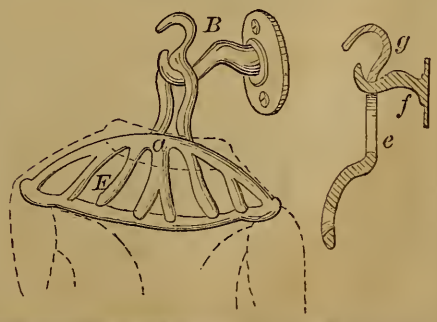
79578—W. Kroeger—*Spring.*



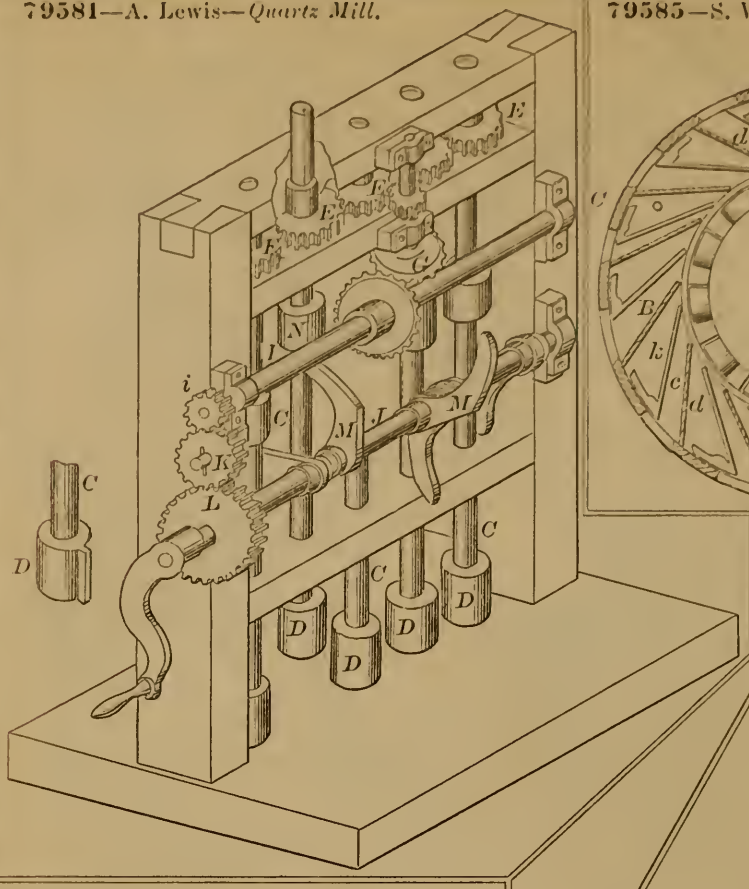
79579—H. P. Lamson—*Sewing Machine.*



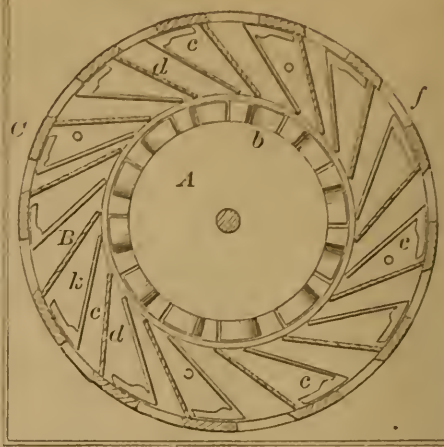
79580—Leach & Wardwell—*Coat Suspender.*



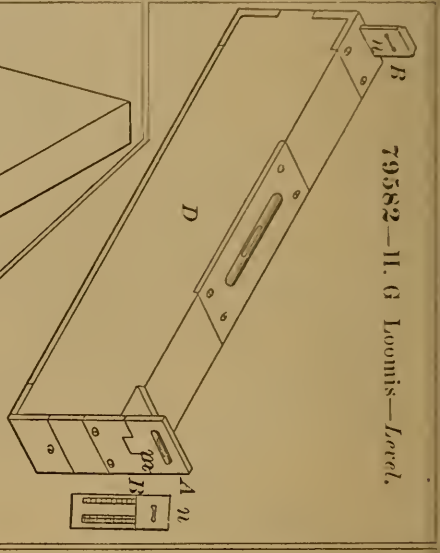
79581—A. Lewis—*Quartz Mill.*



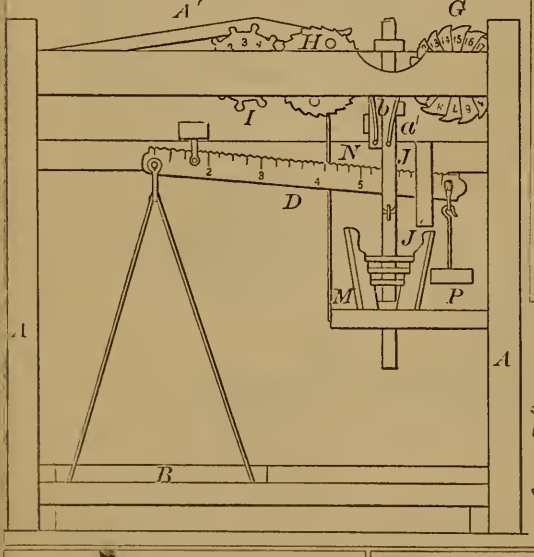
79585—S. W. Marsh—*Water Wheel.*

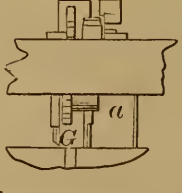


79582—H. G. Loomis—*Level.*



79583—C. C. Lyman—*Scales.*

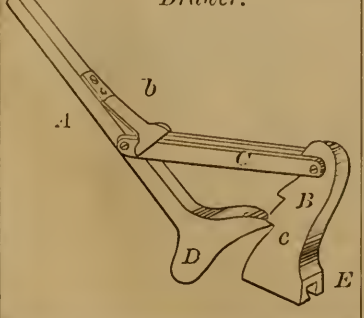




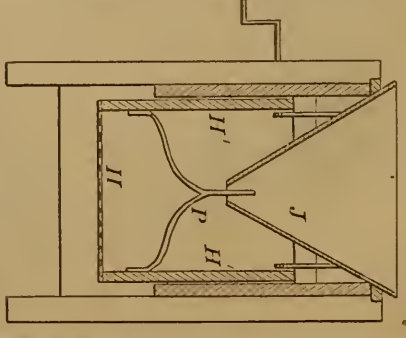
79584—Madison & Thomas—*Wagon Pole.*

79586—A. J. Martin—*Hay and Manure Fork.*

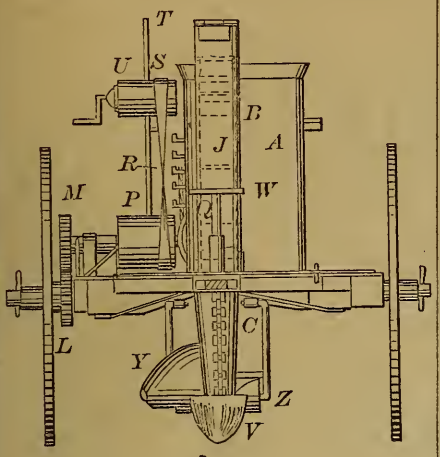
79587—I. W. Mead—*Spike Drawer.*

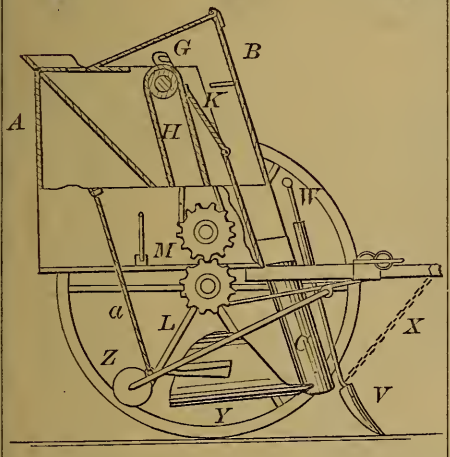


79589—G. Mohler—*Sieve.*

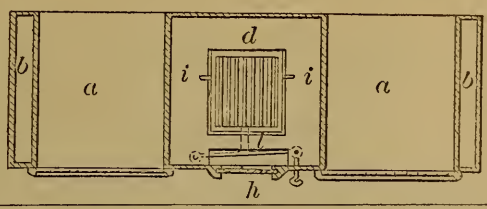


79588—H. Mitchell—*Corn Planter.*

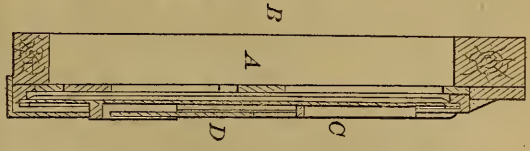




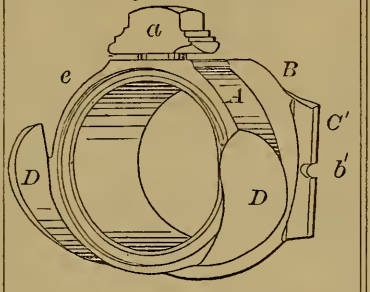
79590—Moneuse & Duparquet—*Stove Grate.*



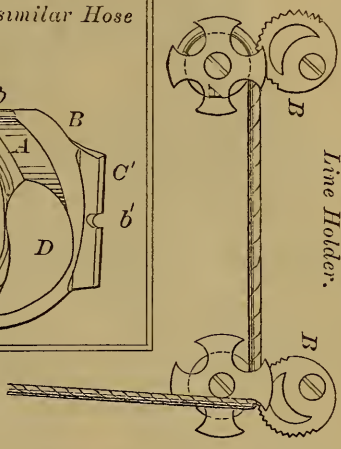
79591—G. W. Neill—*Piano Forte.*



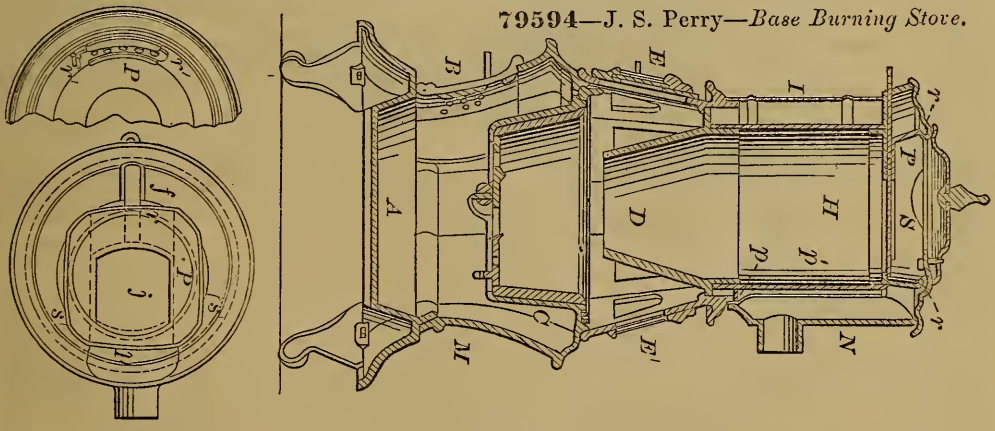
79592—W. H. Paige—*For Connecting Dissimilar Hose Couplings.*



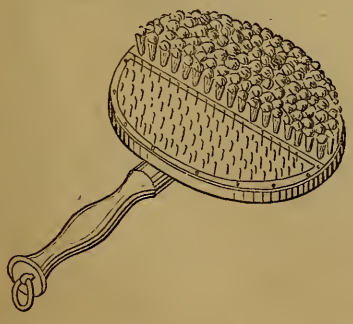
79593—Perkins & Richards—*Clothes Line Holder.*



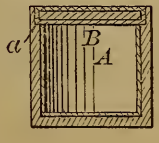
79594—J. S. Perry—*Base Burning Stove.*



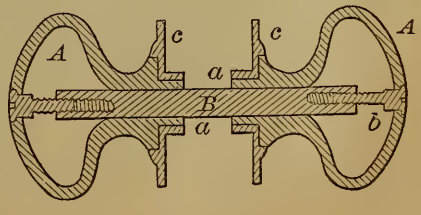
79596—W. H. Prouty—*Card and Brush.*



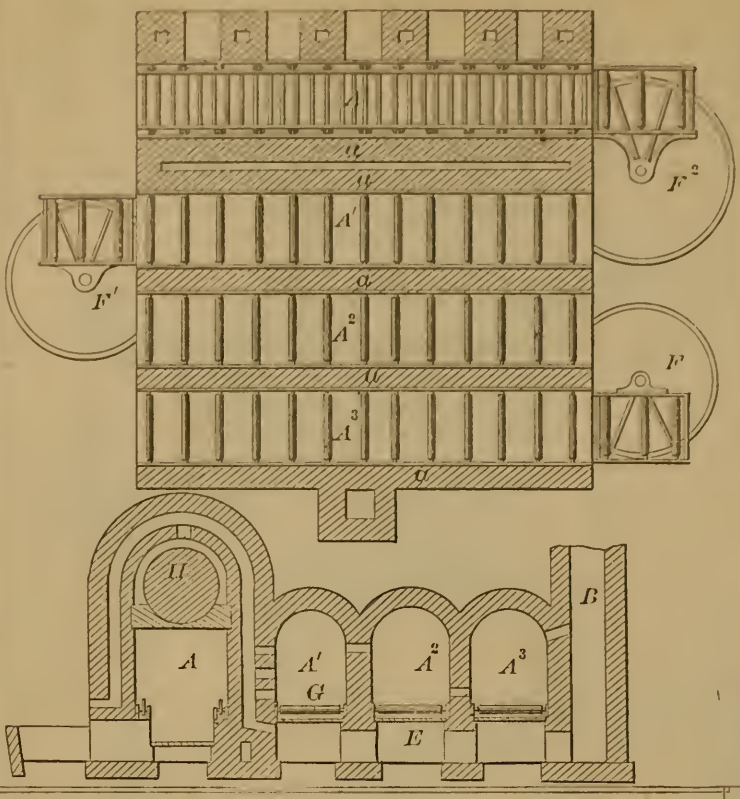
79599—J. Peakirt—*Putting up Alkali.*



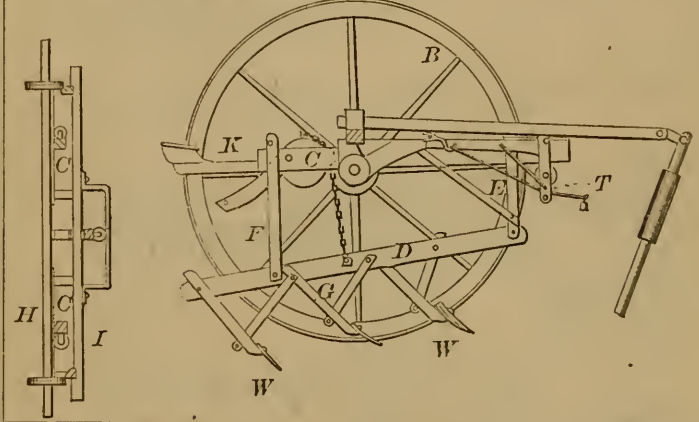
79597—S. S. Putnam—*Attaching Door Knobs to Spindles.*



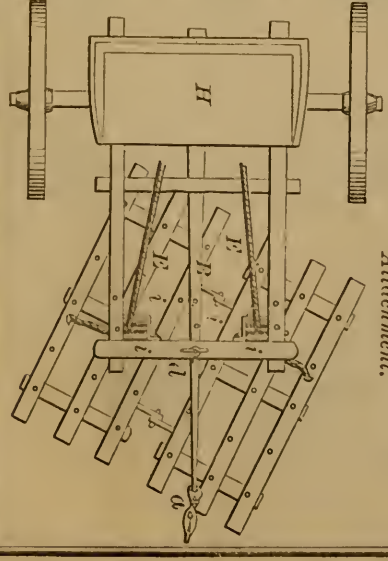
79595—F. Power—*Brick Kiln.*



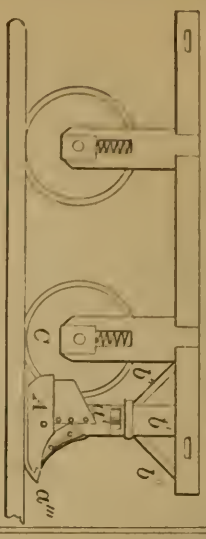
79598—N. A. Rand—*Cultivator.*



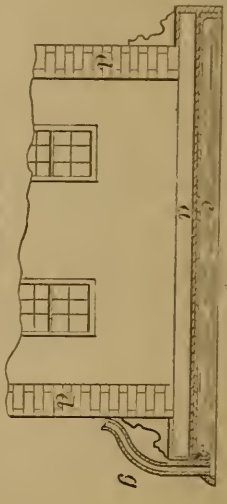
79604—A. D. Shaver—*Harrow Riding Attachment.*



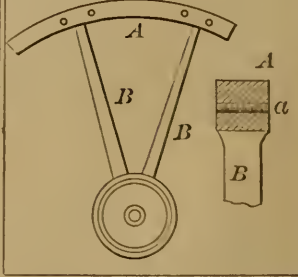
79600—C. F. Riley—*Railroad Track Clearer.*



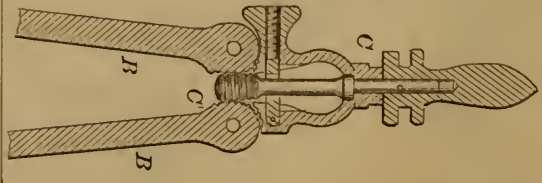
79601—F. O. Rogers—*Preserving Composition Roofs.*



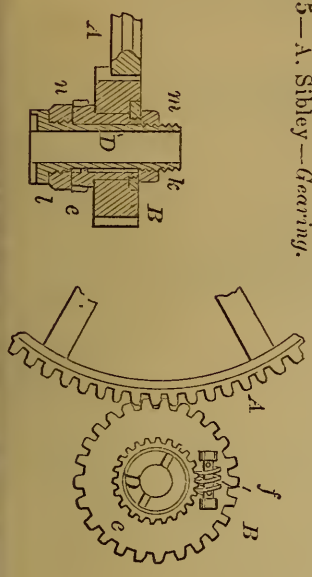
79602—T. Salorgne—*Wagon Wheel.*



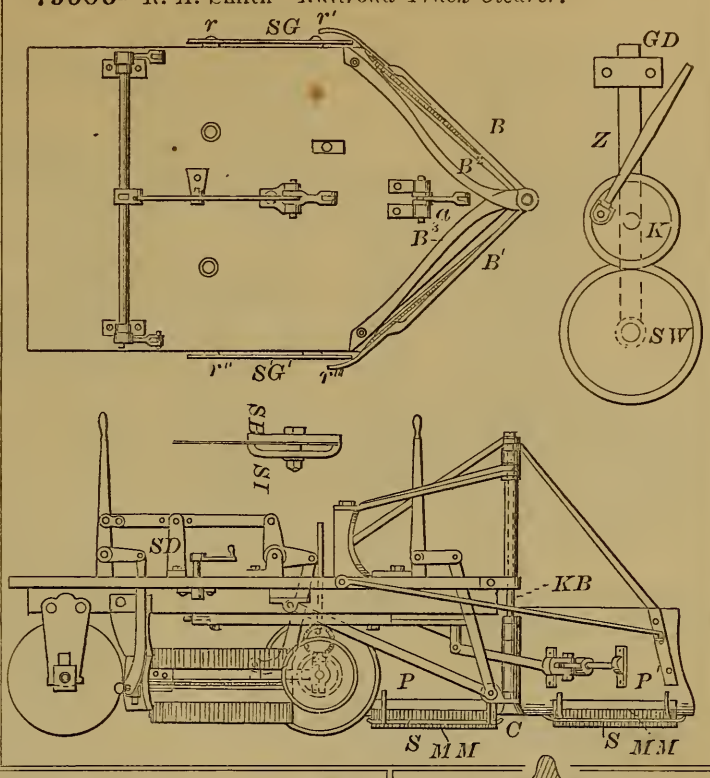
79603—S. Sawyer—*Calipers.*



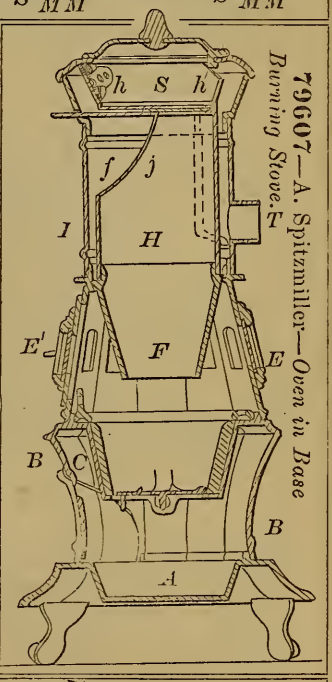
79605—A. Sibley—*Gearing.*



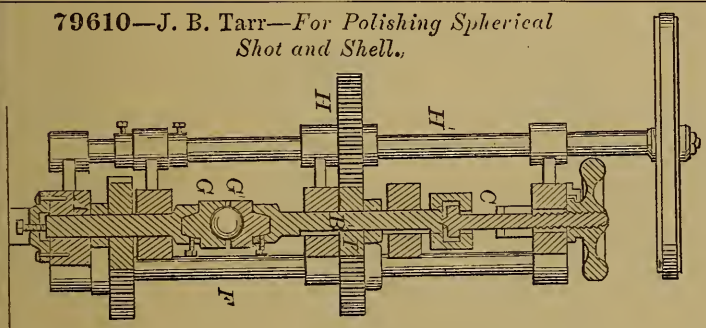
79606—R. A. Smith—*Railroad Track Clearer.*



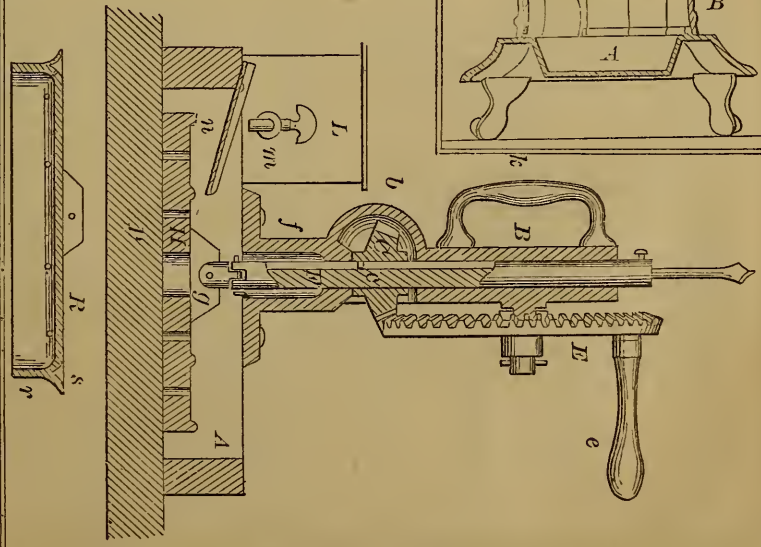
79607—A. Spitzmiller—*Oven in Base Burning Stove.*



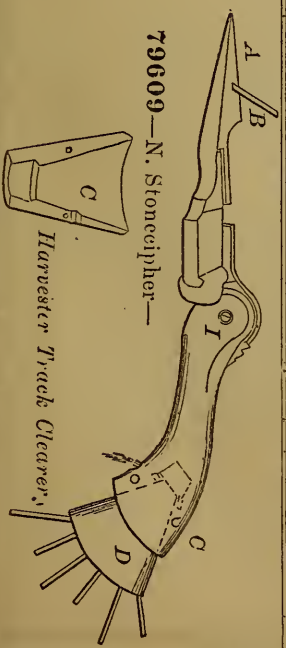
79610—J. B. Tarr—*For Polishing Spherical Shot and Shell.*



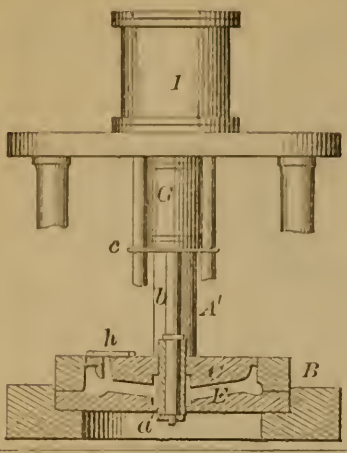
79608—S. Stanton—*For Sawing Stone.*



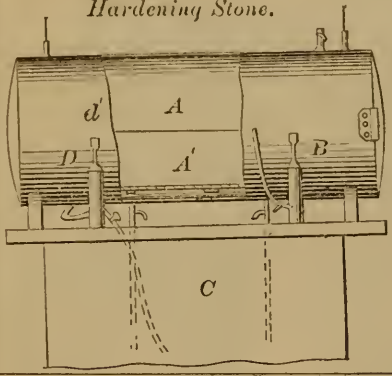
79609—N. Stonecipher—*Harvester Track Clearer.*



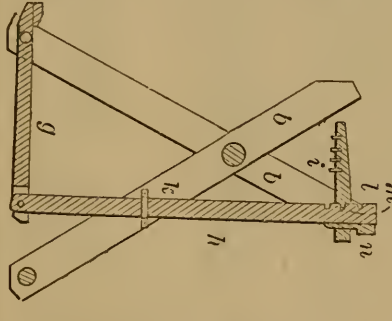
79611—J. B. Tarr—*Car Wheel.*



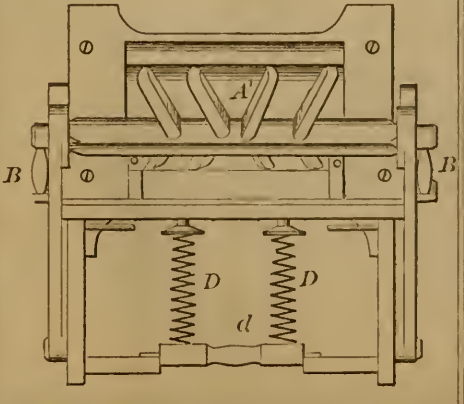
79612—E. P. Taylor—*For Hardening Stone.*



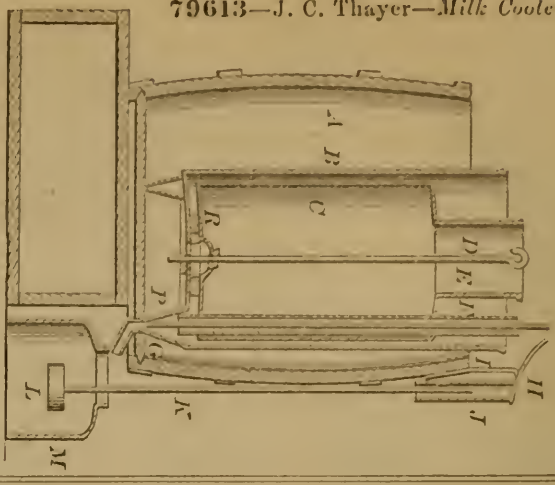
79614—W. Tripp—*Saw Horse.*



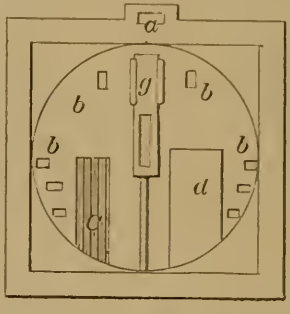
79617—L. T. Wells—*Printing Press.*

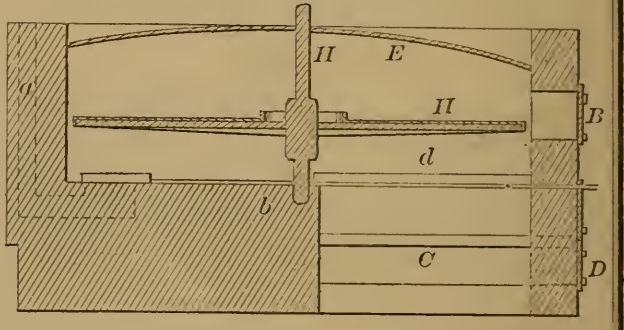


79613—J. C. Thayer—*Milk Cooler*

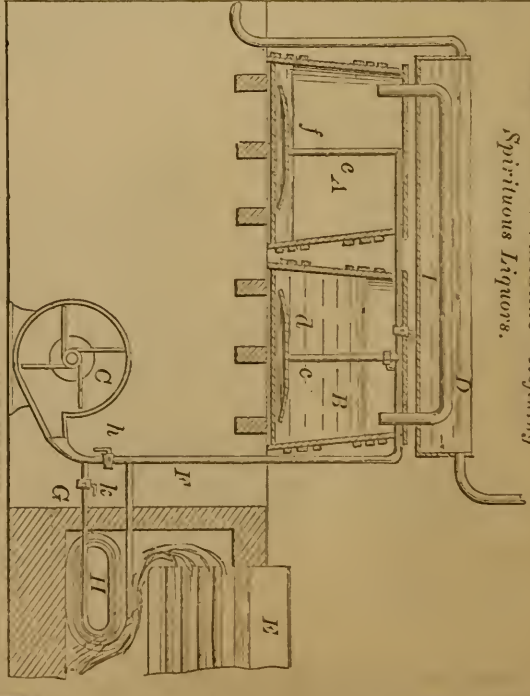


79615—J. Vale—*Oven.*

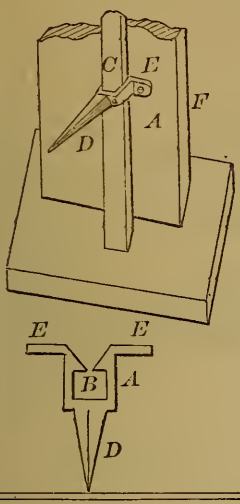




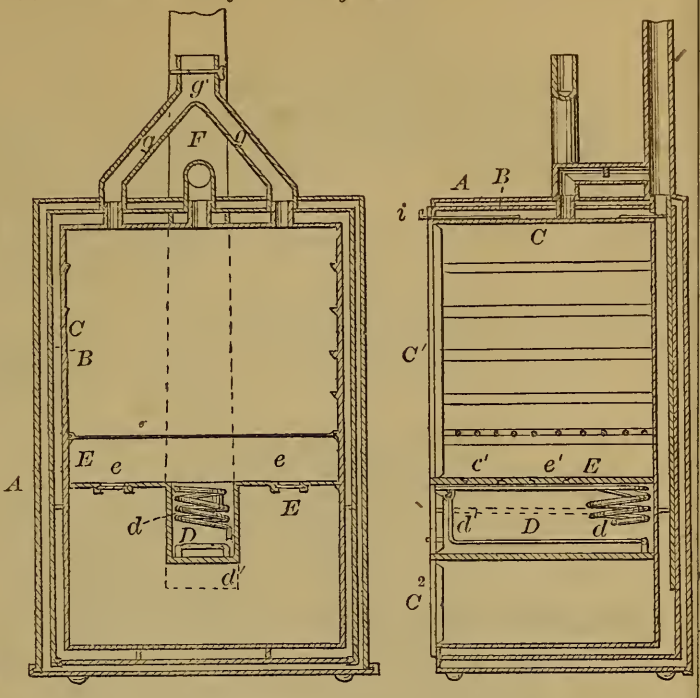
79616—W. P. Valentine—*Refining Spirituous Liquors.*



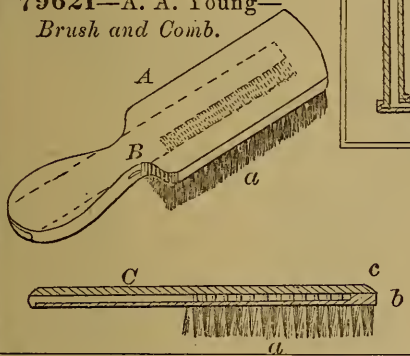
79618—M. Wells—*Bracket for Lightning Rods.*



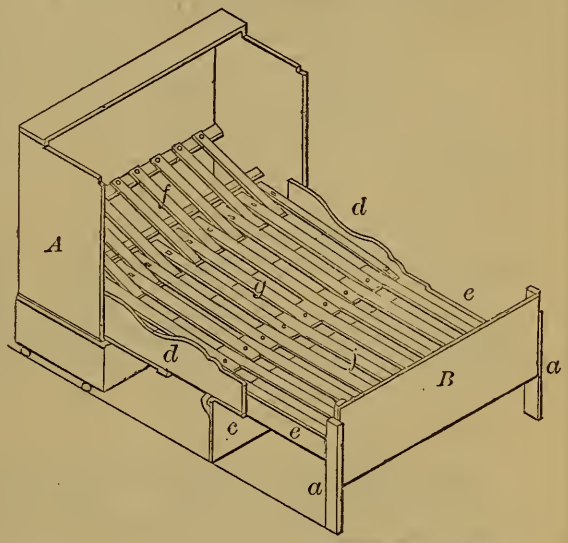
79619—M. Woolley—*Cooking Stove.*



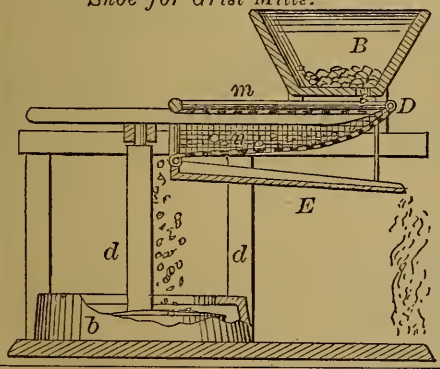
79621—A. A. Young—*Brush and Comb.*

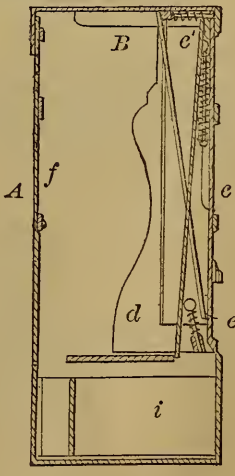


79622—W. H. & L. Young—*Cabinet Bedstead.*

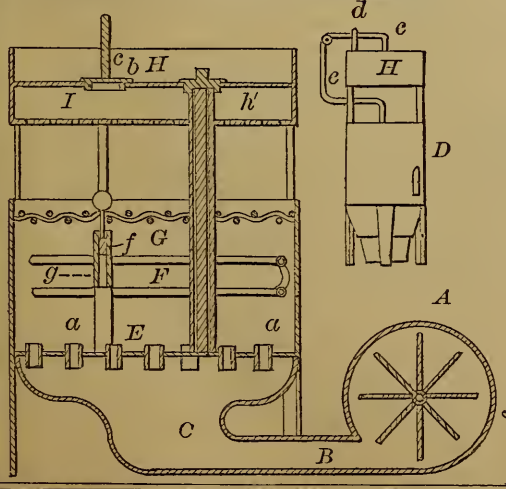


79620—Wyche & Dickson—*Hopper Shoe for Grist Mills.*

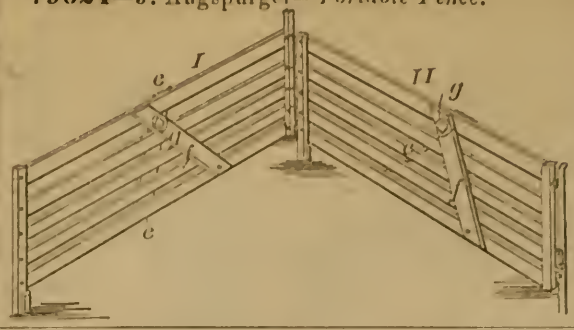




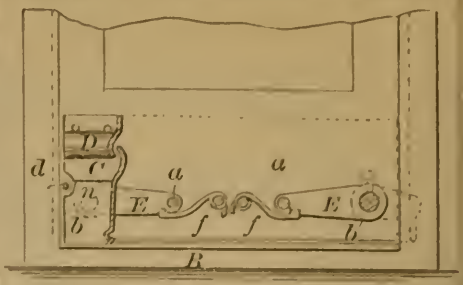
79623—E. H. Ashcroft—*Dryer.*

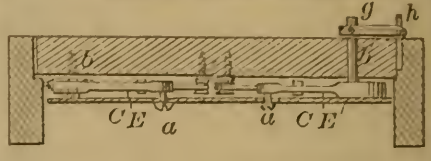


79624—J. Augspurger—*Portable Fence.*



79625—B. F. Averill—*Weather Strip.*





79627—L. Barnum—*For Cutting and Dressing Stone.*

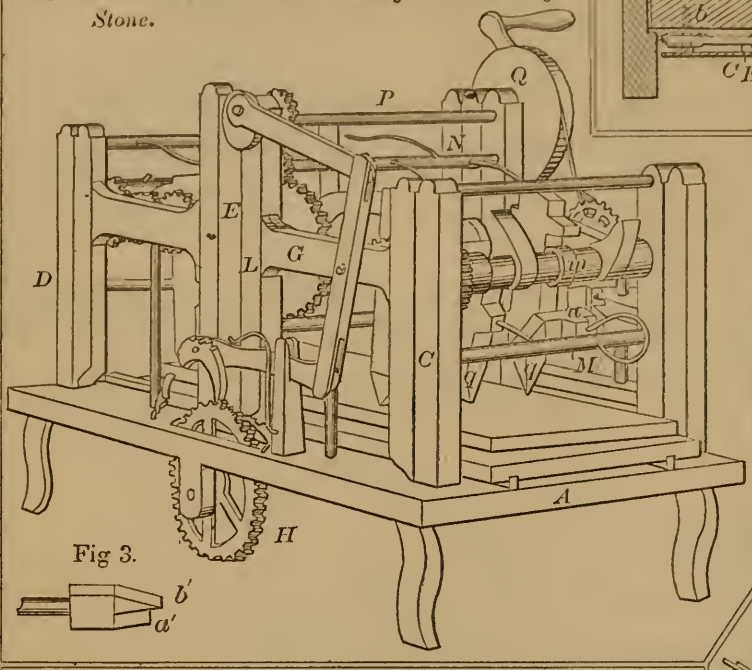
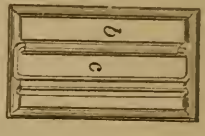
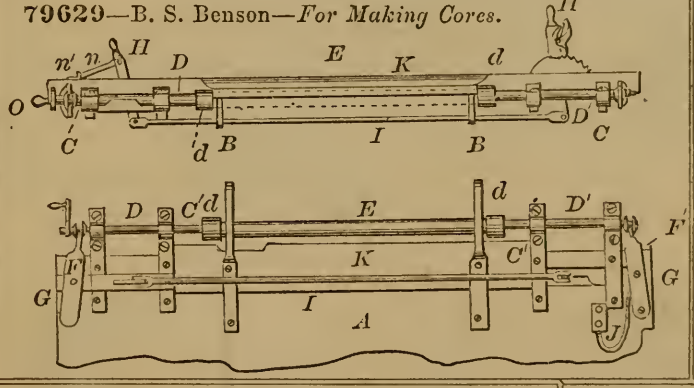


Fig 3.

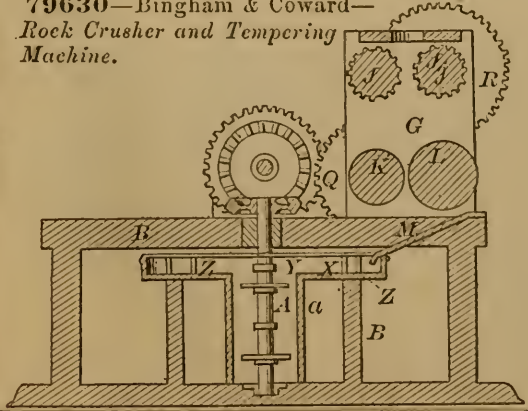
79626—I. Banister—*Buckle.*



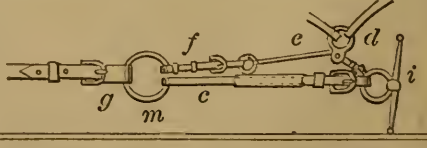
79629—B. S. Benson—*For Making Cores.*



79630—Bingham & Coward—*Rock Crusher and Tempering Machine.*

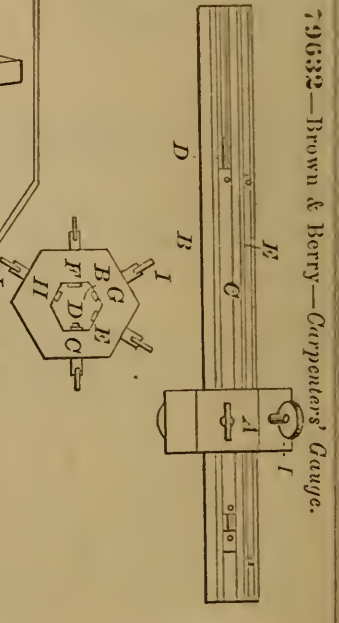


79628—A. Bauerschmitt—*Bridle.*

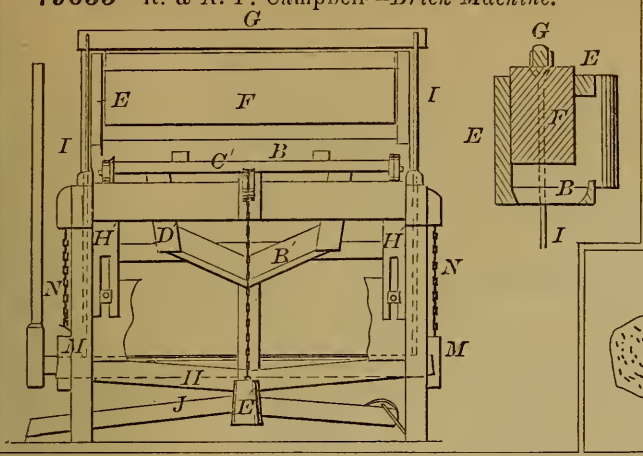


79631—H. & E. Briner—*Steel Shank for Boots and Shoes.*

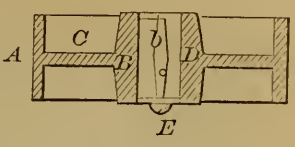
79632—Brown & Berry—*Carpenters' Gauge.*



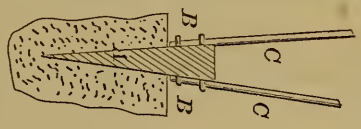
79633—R. & A. P. Campbell—*Brick Machine.*



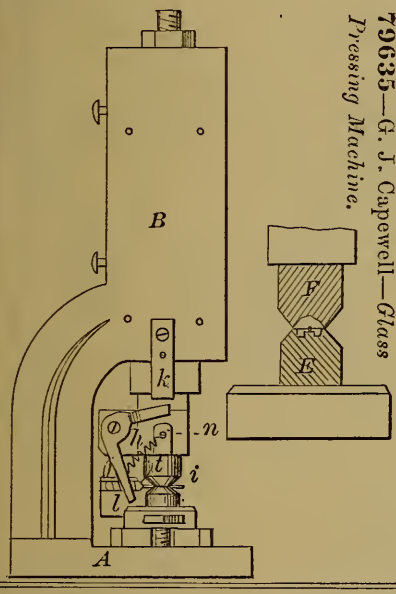
79634—E. S. Capen—*Pulley.*



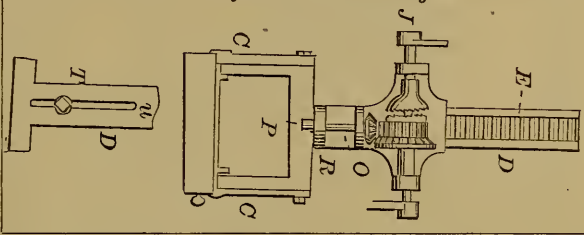
79636—L. B. Clark—*Hop Pole.*



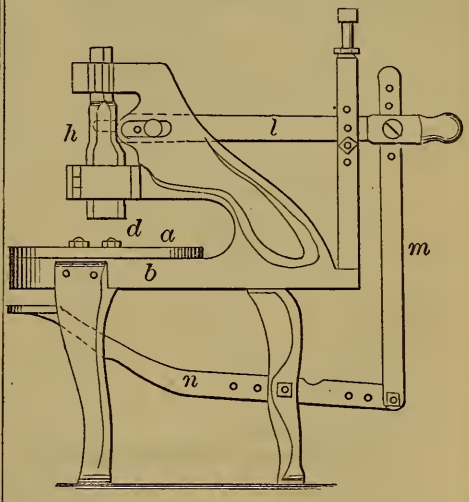
79635—G. J. Capewell—*Glass Pressing Machine.*



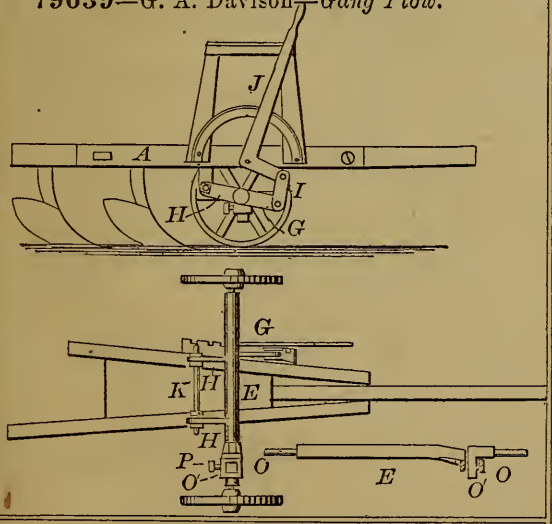
79640—G. Dryden—*For Boring Wood.*



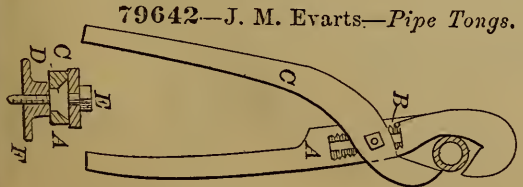
79637—J. E. Conor—*Press.*



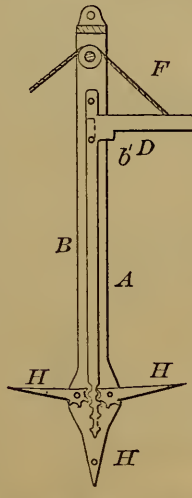
79639—G. A. Davison—*Gang Plow.*



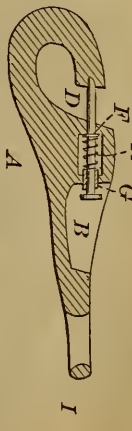
79642—J. M. Evarts—*Pipe Tongs.*



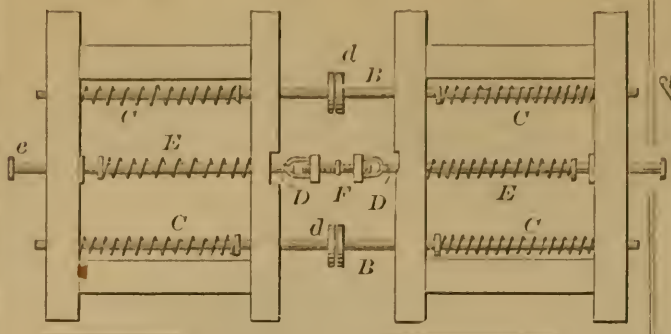
79644—E. J. Fenn—*Horse Hay Fork.*



79638—Cooper & Rumsey—*Snap Hook.*

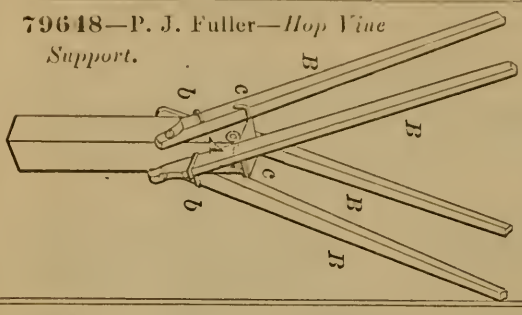


79643—J. M. Everhart—*Car Coupling.*

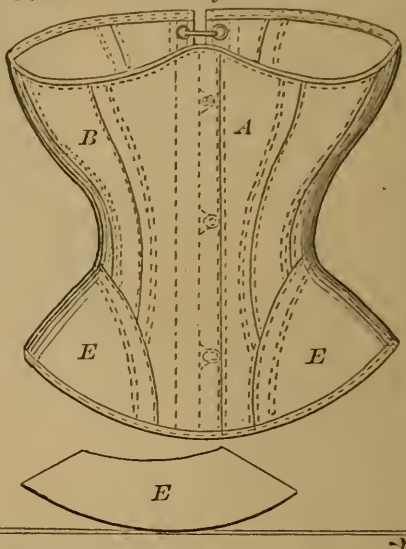


79646—B. G. Fitzhugh—*Car Platform Bridge.*

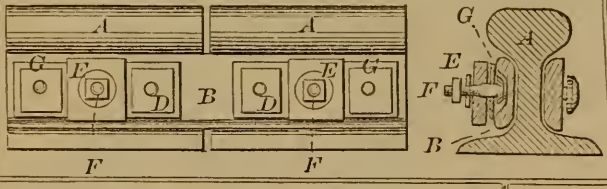
79648—P. J. Fuller—*Hop Vine Support.*



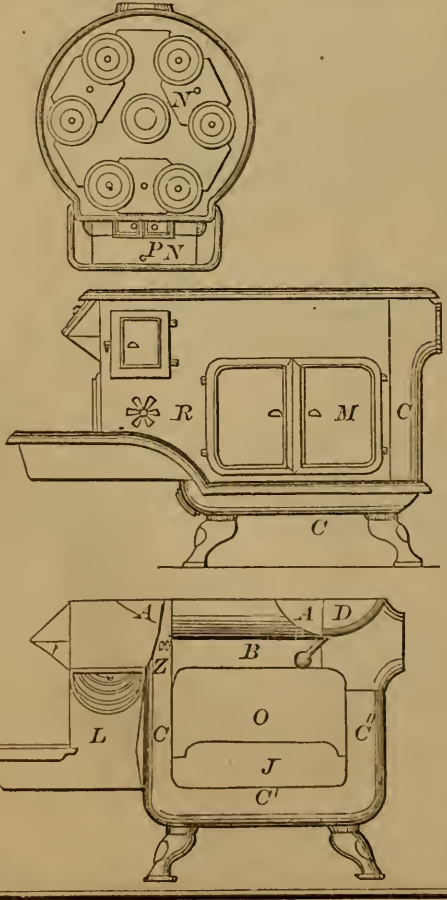
79647—L. H. Foy—*Corset.*



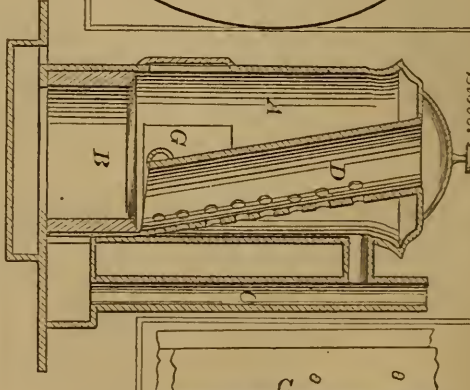
79649—S. Garber—*Lock Nut.*



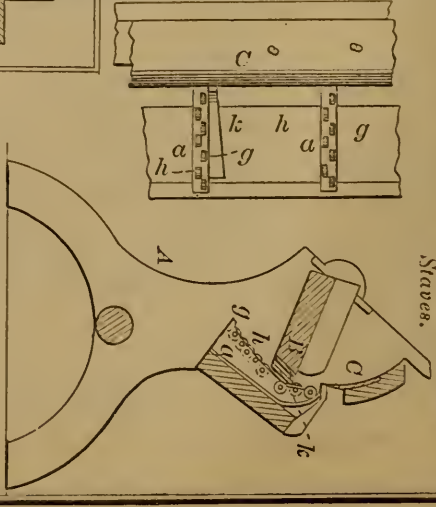
79652—J. H. Greer—*Cooking Stove.*



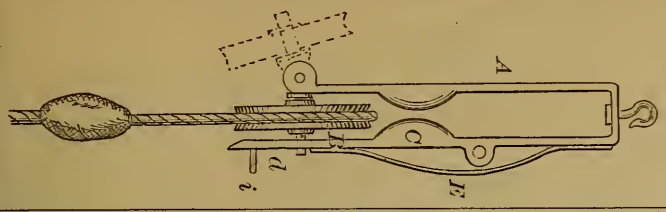
79650—S. W. Gibbs—*Stove.*



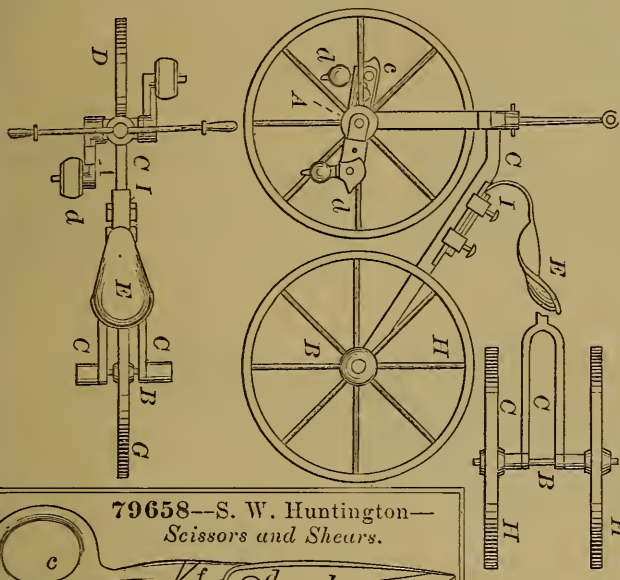
79651—J. Greenwood—*For Cutting Staves.*



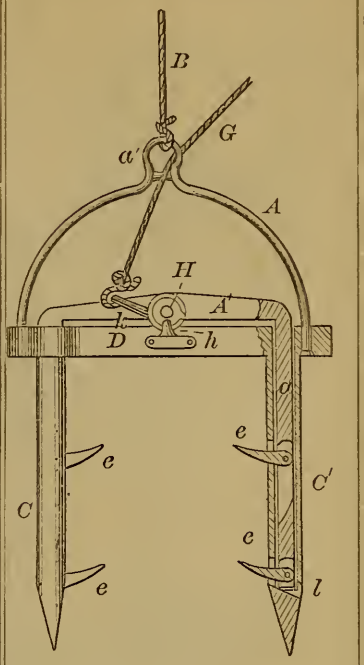
79653—J. E. Gustin—*Self-Detaching Pulley.*



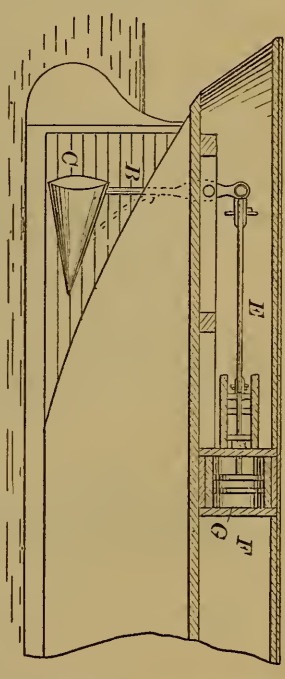
79654—G., W., A., E. & F. Hanlon—*Velocipede.*



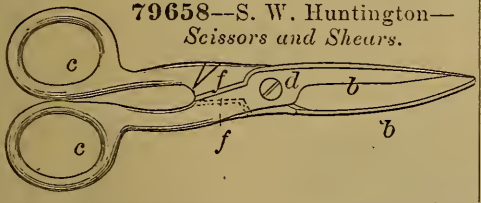
79655—W. Hannah—*Horse Hay Fork.*



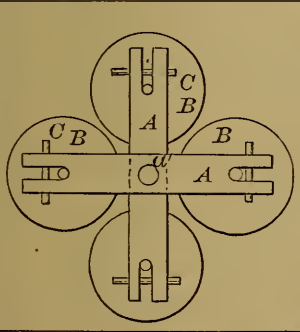
79657—R. Hunter—*Propeller.*



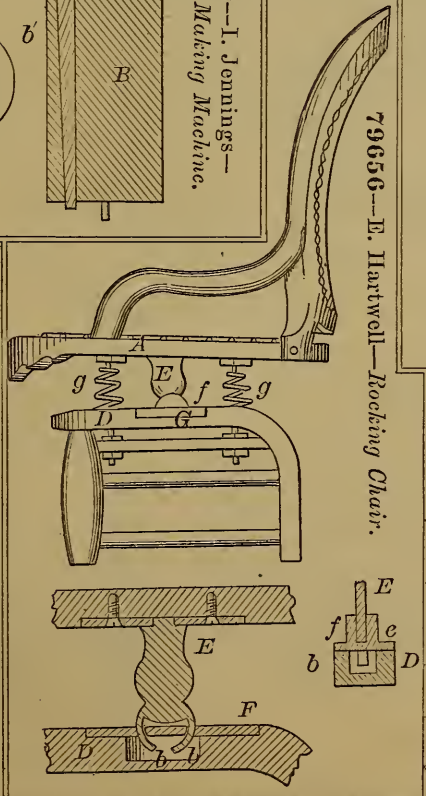
79658—S. W. Huntington—*Scissors and Shears.*



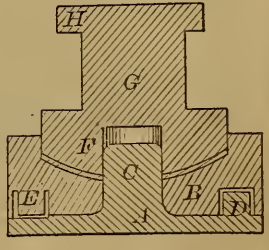
79659—I. Jennings—*Paper Making Machine.*



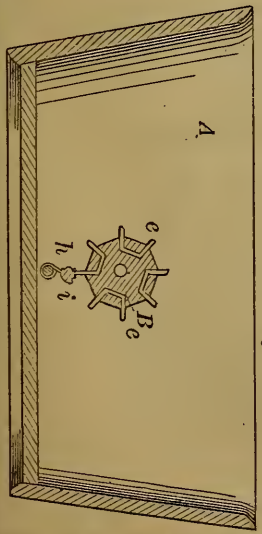
79656—E. Hartwell—*Rocking Chair.*



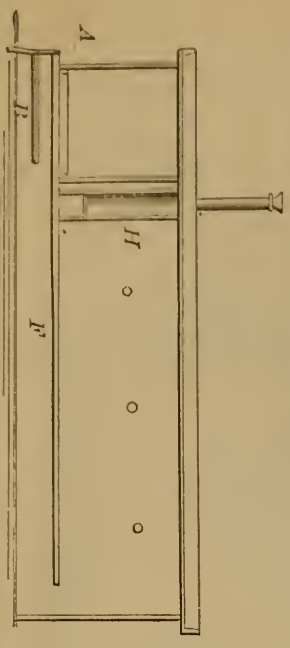
79660—C Jillson—*Mould for Strawberry Ripeners.*



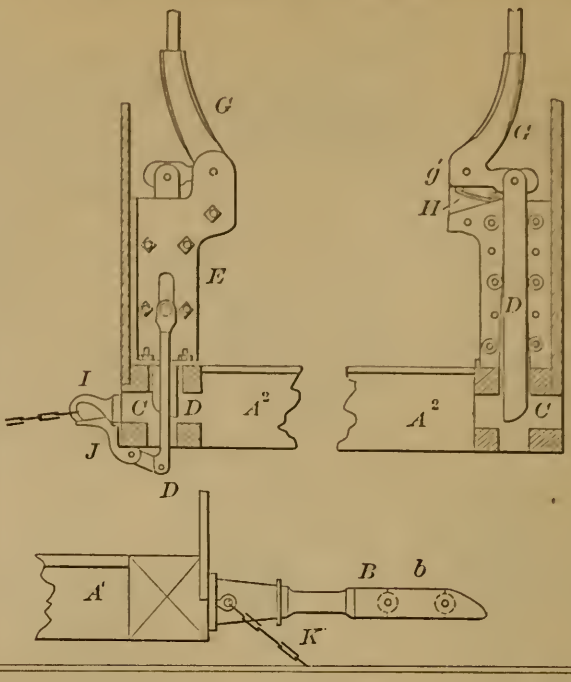
79662—J. Lamb—*Washing Machine.*



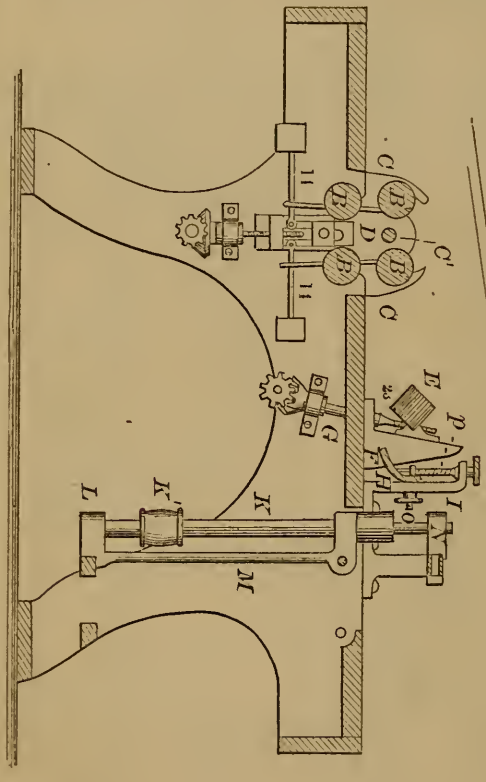
79661—Johnson & Sumner—*Lumber Dryer.*

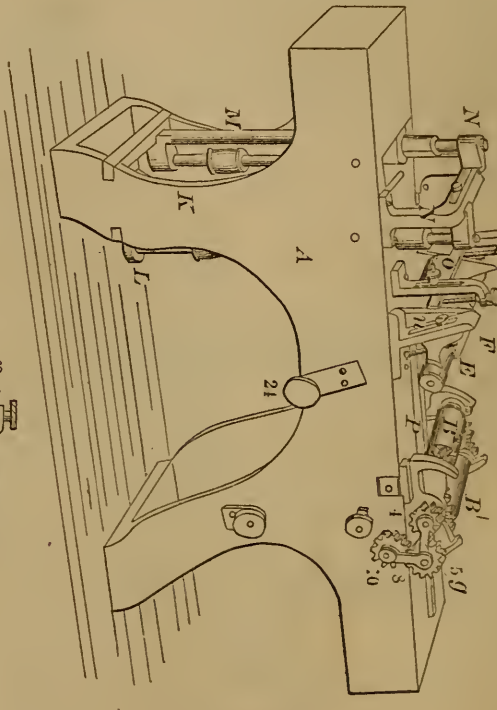


79664—L. J. Lecocq—*Car Coupling.*

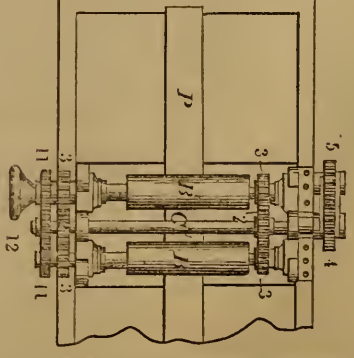


79663—H. A. Lee—*Moulding Machine.*

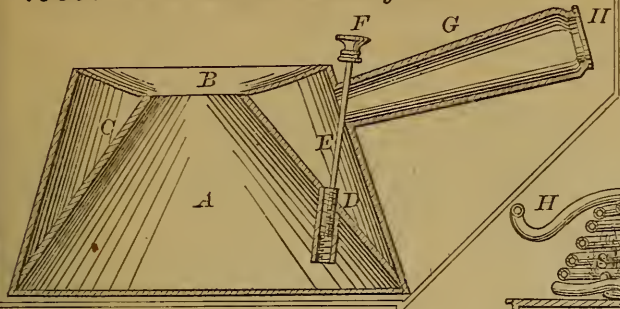




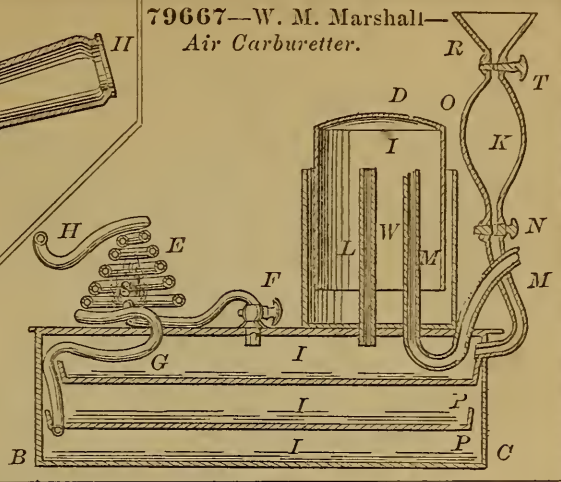
79665—J. Madden—*Wrench.*



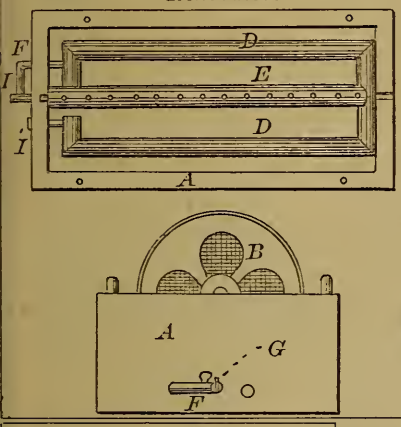
79666—F. W. Marvin—*Marking Can.*



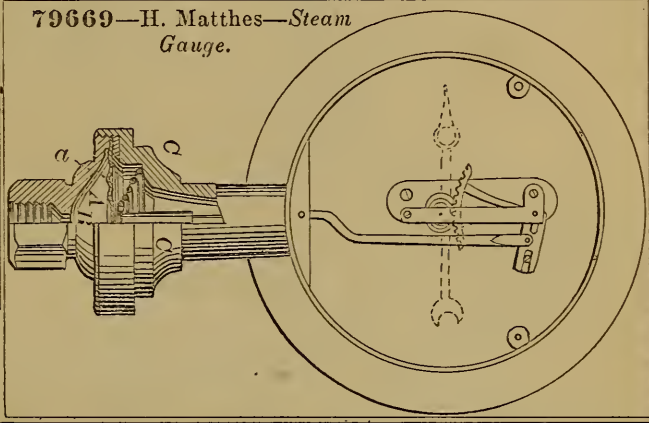
79667—W. M. Marshall—*Air Carburetter.*



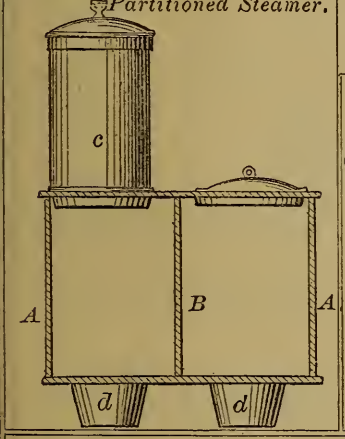
79668—Mason & Bell—*Feather Renovator.*



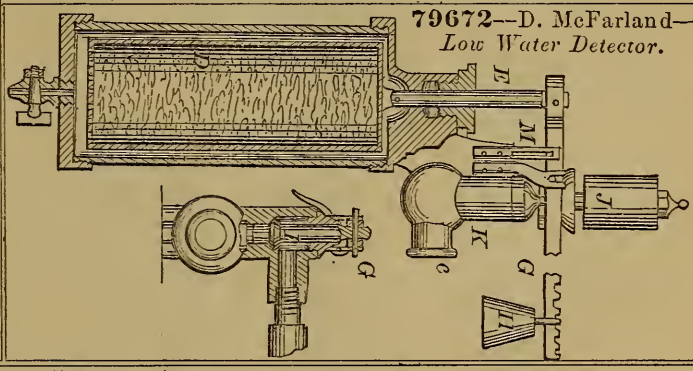
79669—H. Matthes—*Steam Gauge.*



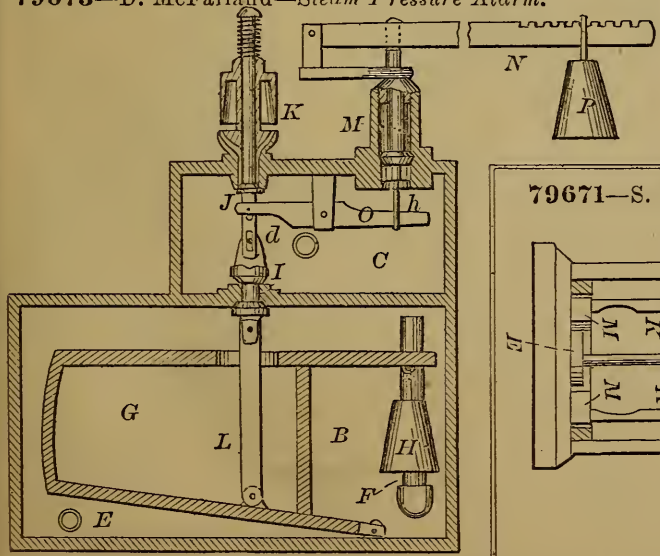
79670—S. T. McDougall—*Partitioned Steamer.*



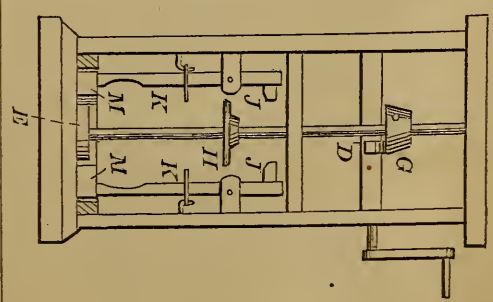
79672—D. McFarland—*Low Water Detector.*



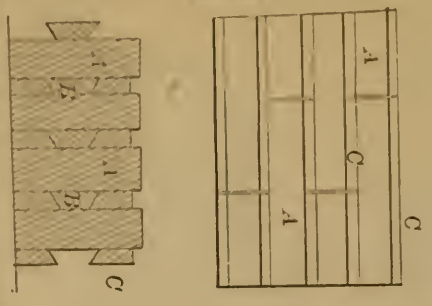
79673—D. McFarland—*Steam Pressure Alarm.*



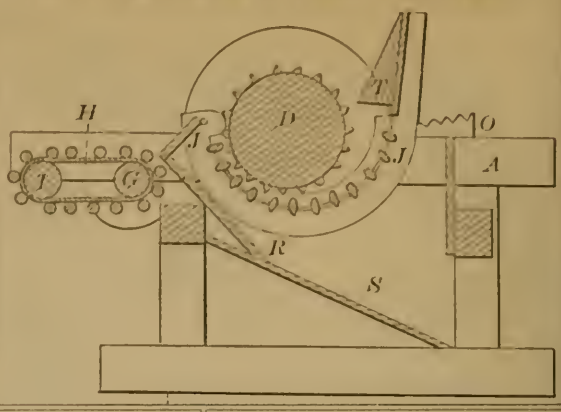
79671—S. T. McDougall—*Clothes Pounder.*



79674—D. McKenzie—*Wooden Pavement.*



79675—McPheeters & Gross—*Corn Sheller.*



79676—Moore, Bleistein & Shirk—*For Cutting Boots.*

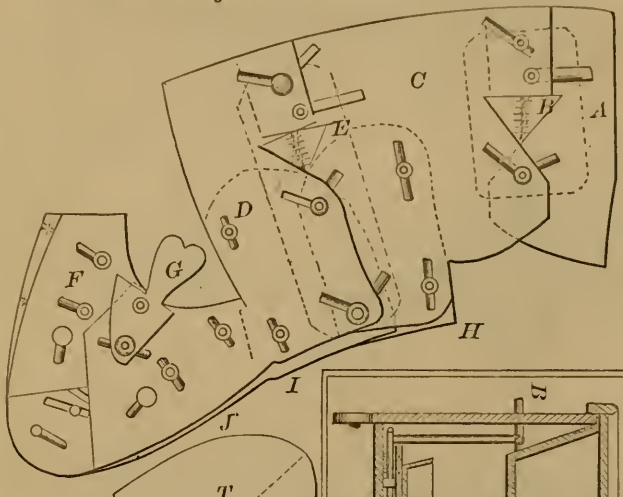
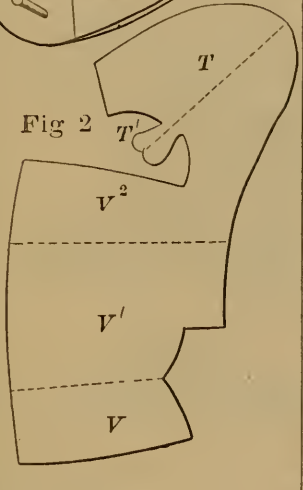
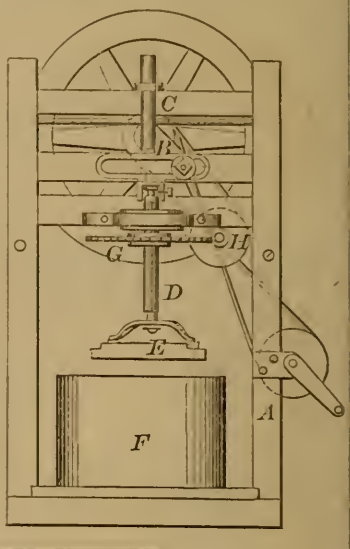


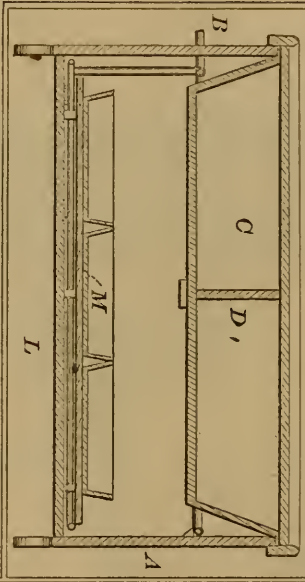
Fig 2



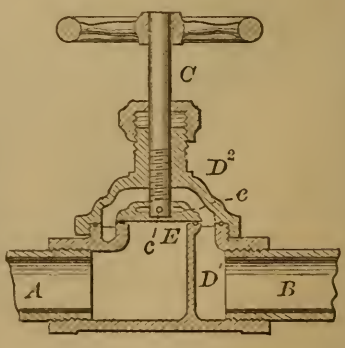
79678—H. Obrecht—*Meat Cutter.*

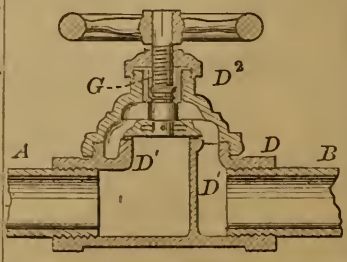


79680—W. Pearce—*Sponge and Dough Raiser.*

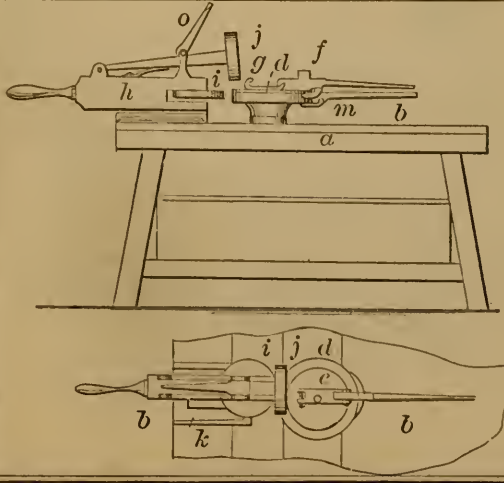


79679—R. S. Packard—*Globe Valve.*

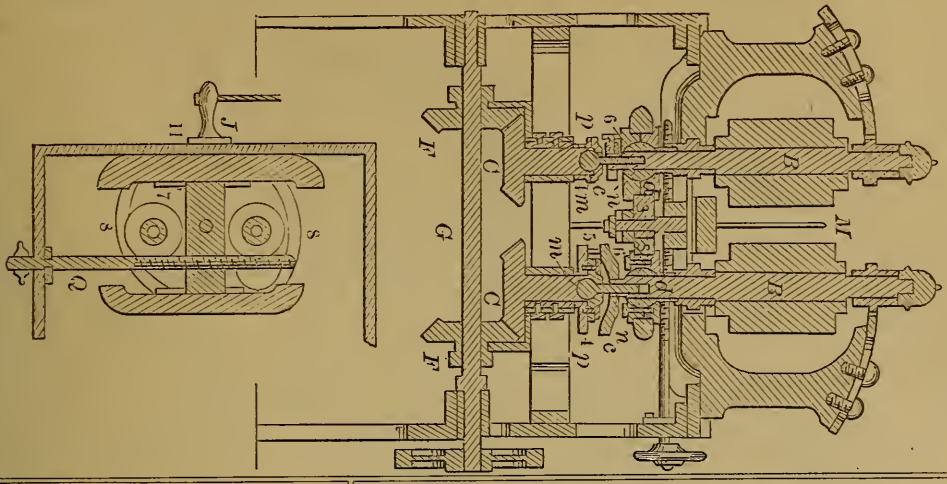




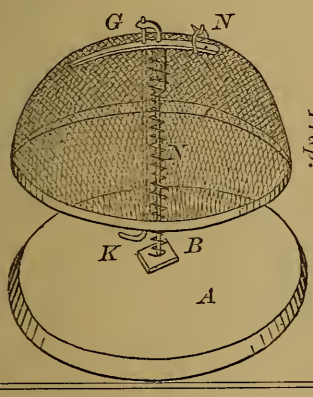
79677—W. Morgey—*Bending Fifth Wheels.*



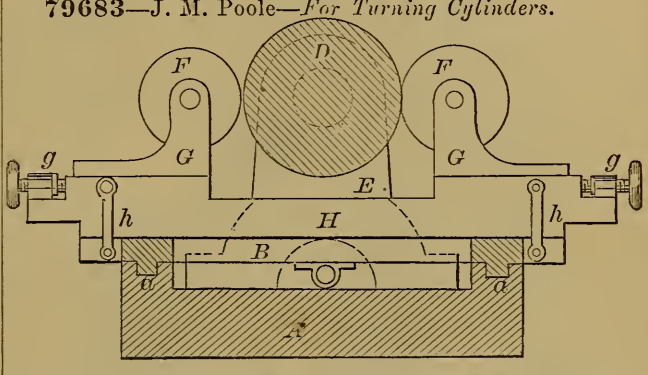
79682—F. J. Plummer—*Circular Saw Mill.*



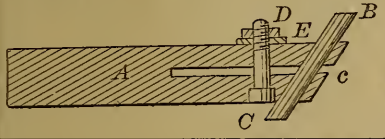
79686—S. S. Rain—*Animal Trap.*



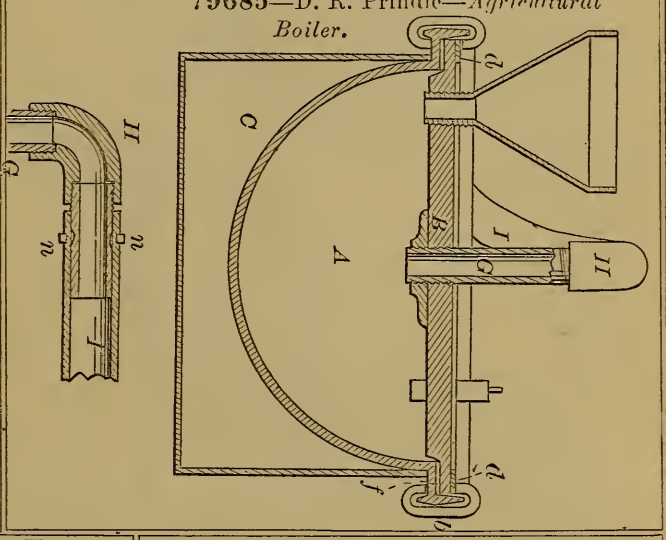
79683—J. M. Poole—*For Turning Cylinders.*



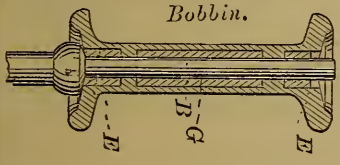
79684—W. Pratt—*Tool Holder.*



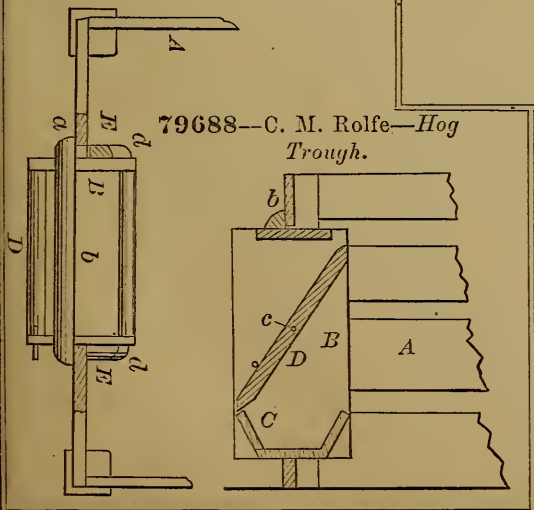
79685—D. R. Prindle—*Agricultural Boiler.*



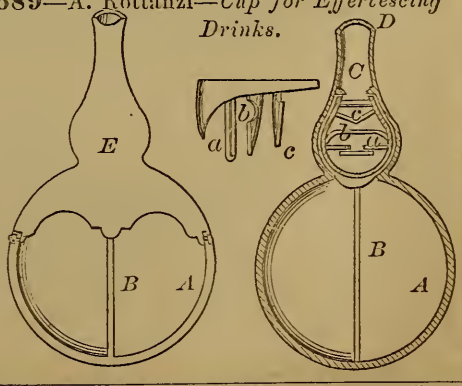
79687—W. H. Ramsdell—*Bobbin.*



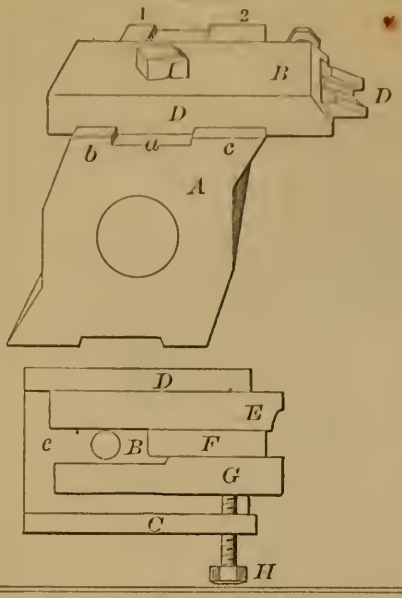
79688—C. M. Rolfe—*Hog Trough.*



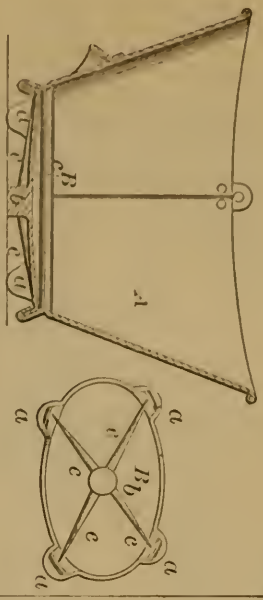
79689—A. Rottanzi—*Cup for Effervescing Drinks.*



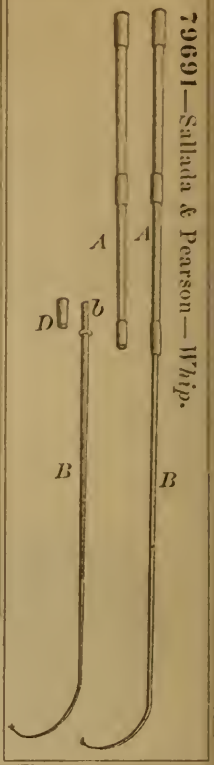
79690—Rowe & Nelson—*Cutter Head.*



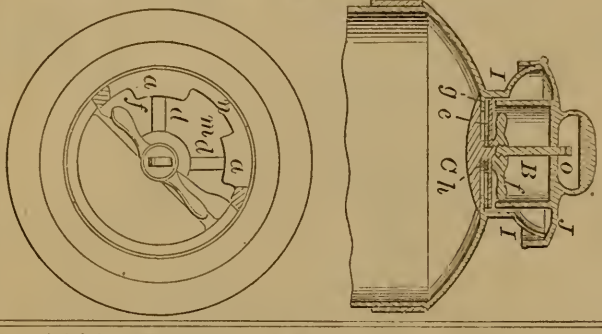
79692—T. & J. M. Seantlin—*Coal Scuttle.*



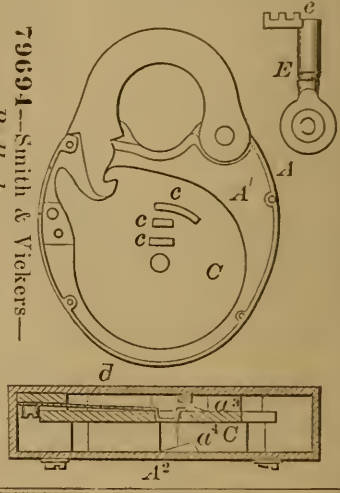
79691—Sallada & Pearson—*Whip.*



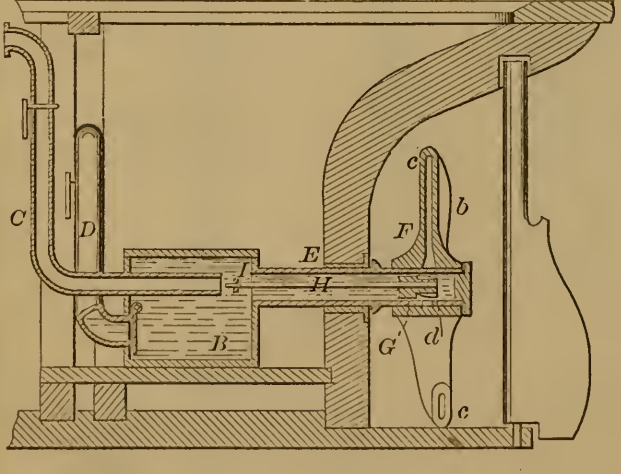
79693—D. W. Shaw—*Milk Can.*

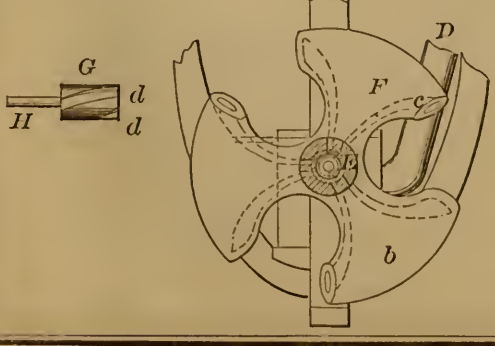


79694—Smith & Vickers—*Padlock.*



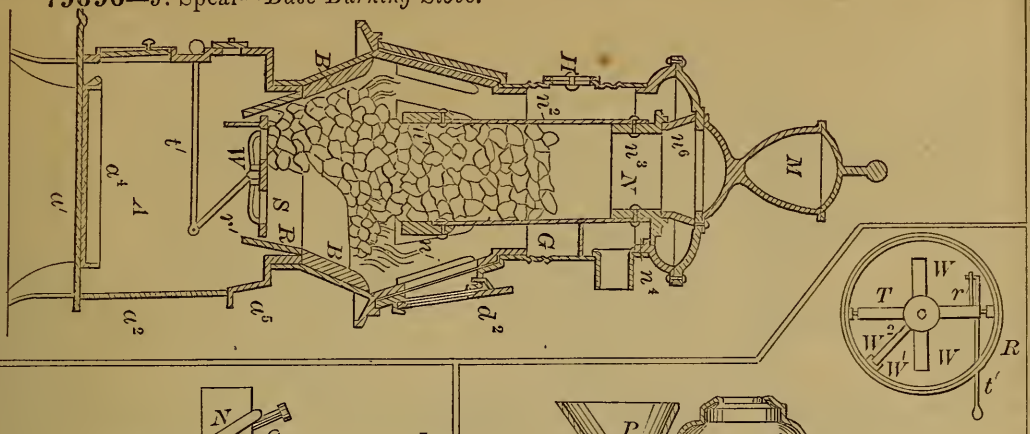
79695—W. Spalding—*Application of Steam to Propellers.*



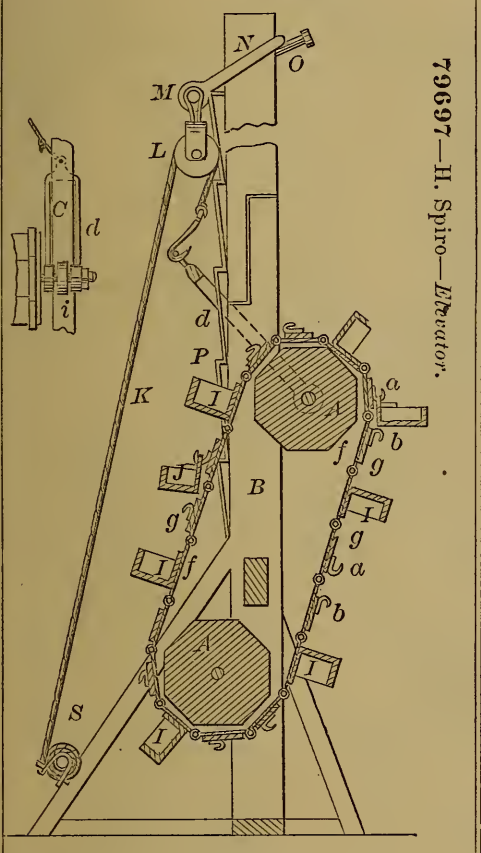


79698—C. W. Sproull—*Panel Fence.*

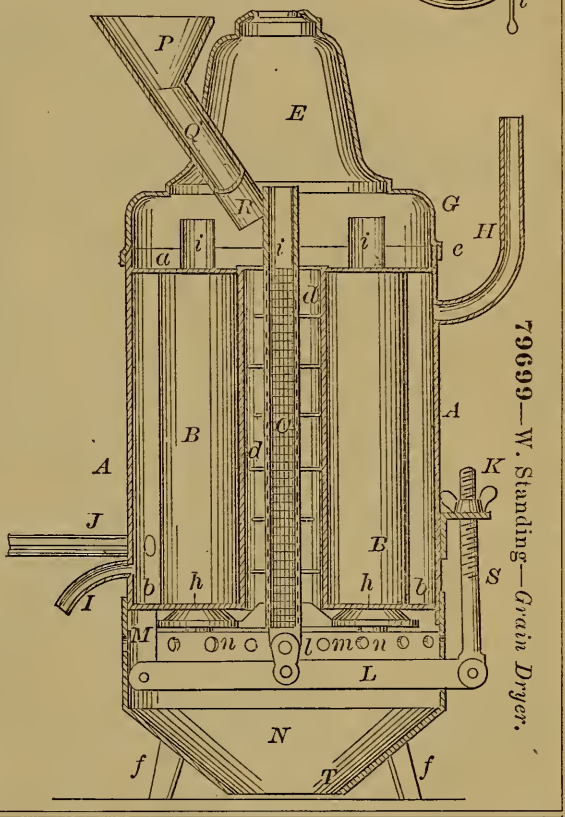
79696—J. Spear—*Base Burning Stove.*



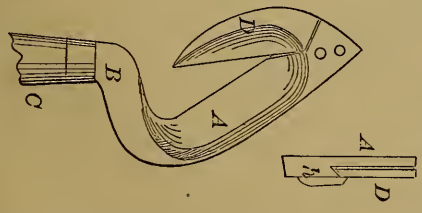
79697—H. Spiro—*Elevator.*



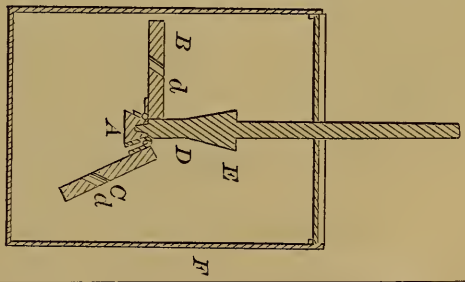
79699—W. Standing—*Grain Dryer.*



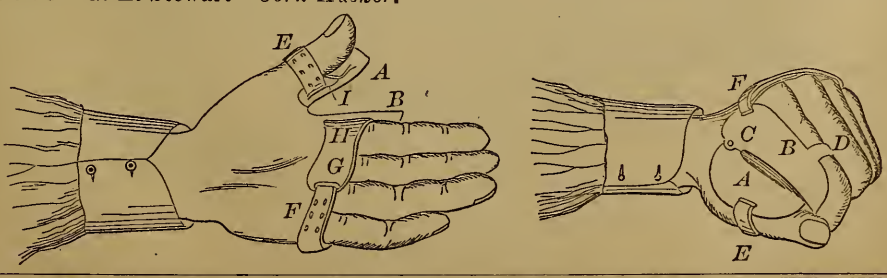
79700—J. Stark—*Pruning Hook.*



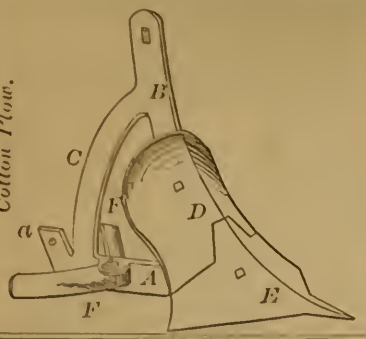
79702—G. R. Stevens—*Churn.*



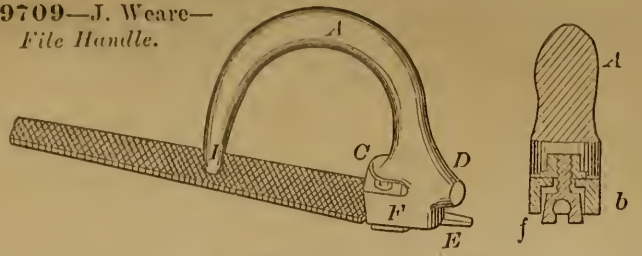
79703—G. E. Stewart—*Corn Husker.*



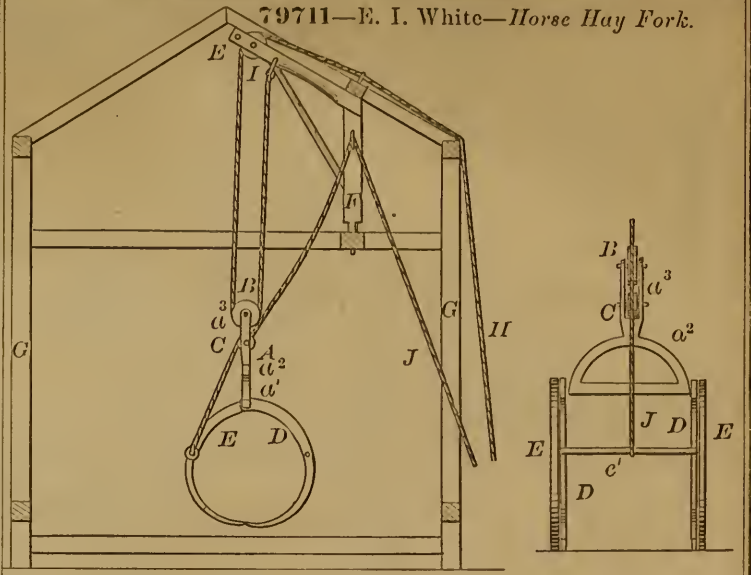
79706—T. A. Wainwright—*Cotton Plow.*



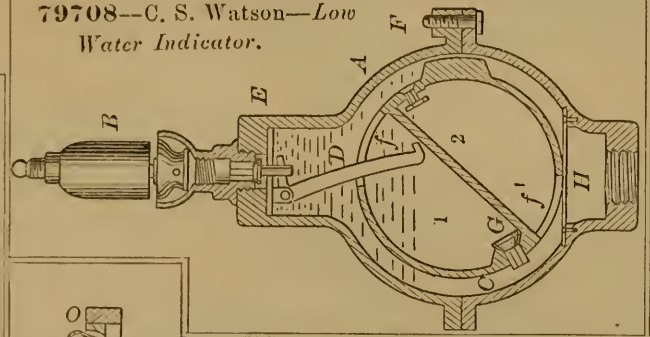
79709—J. Weare—*File Handle.*



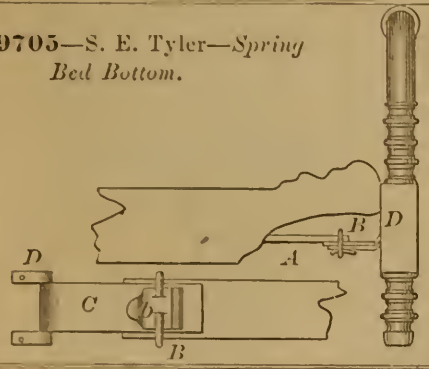
79711—E. I. White—*Horse Hay Fork.*



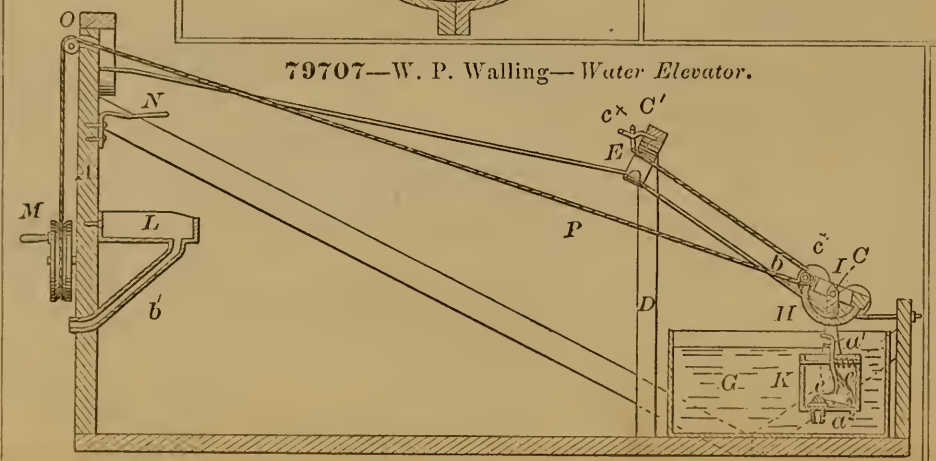
79708—C. S. Watson—*Low Water Indicator.*



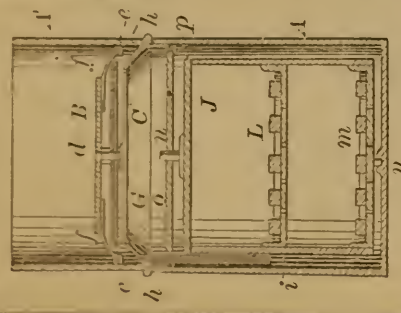
79705—S. E. Tyler—*Spring Bed Bottom.*



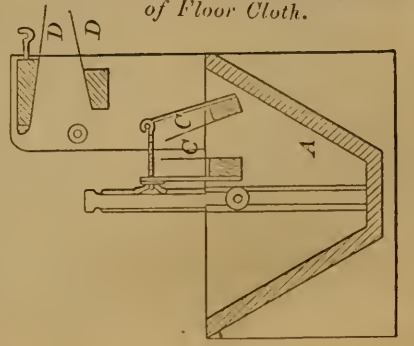
79707—W. P. Walling—*Water Elevator.*



79701—A. B. Sweetland—*Refrigerator.*



79712—J. H. Williams—*Manufacture of Floor Cloth.*



79710—S. K. Wellman—*Hydraulic Crane.*

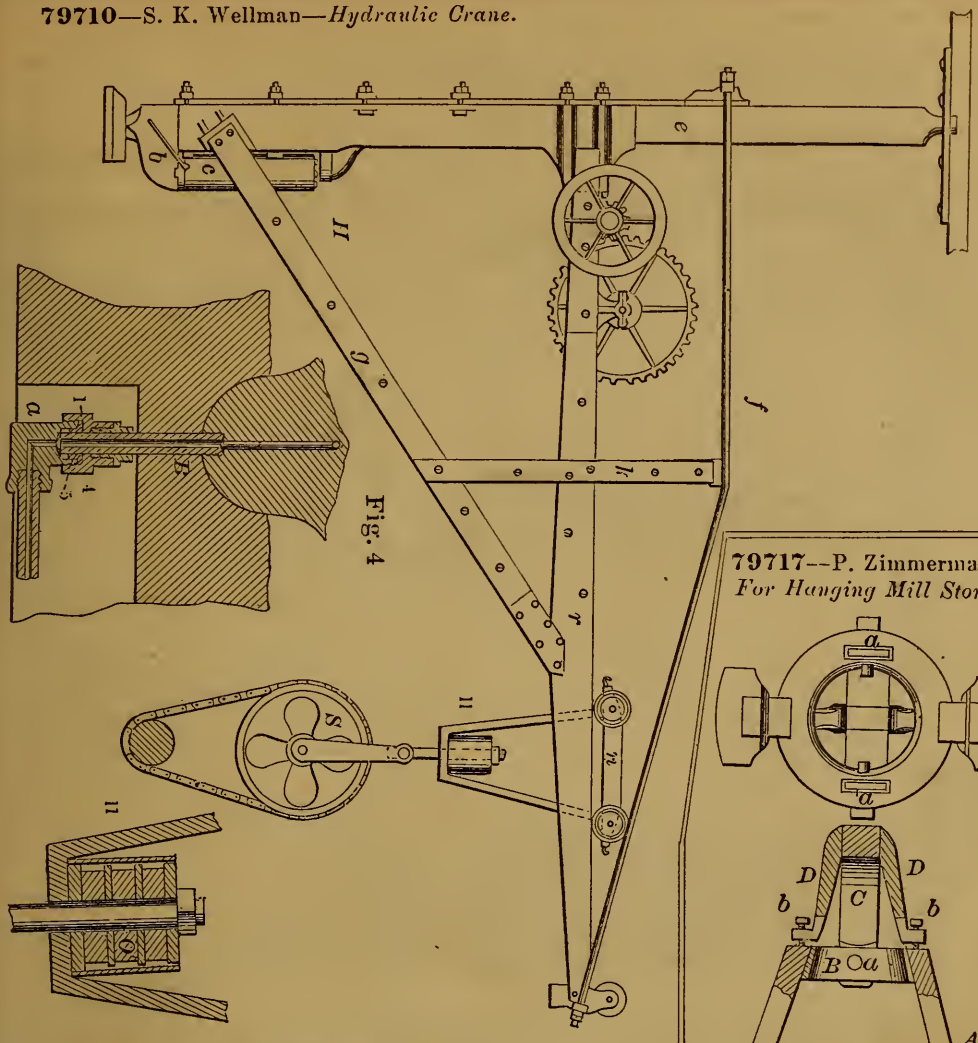
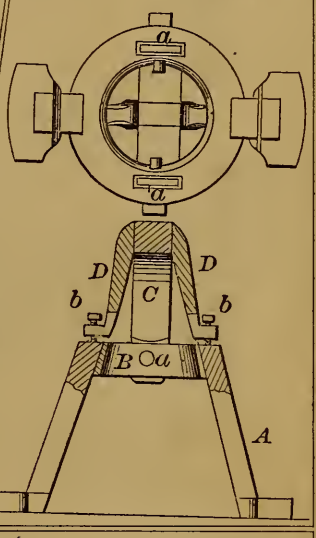
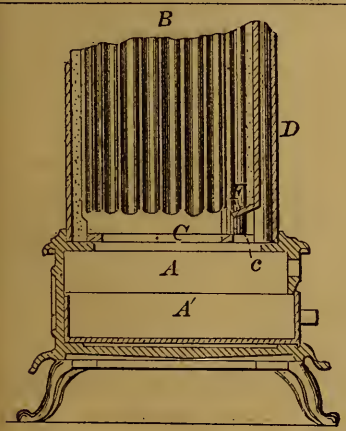


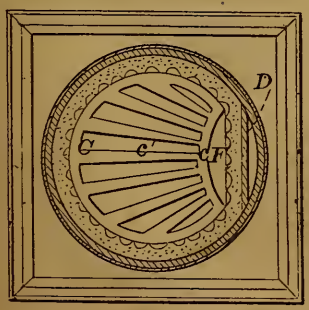
Fig. 4

79717—P. Zimmerman—*For Hanging Mill Stones.*

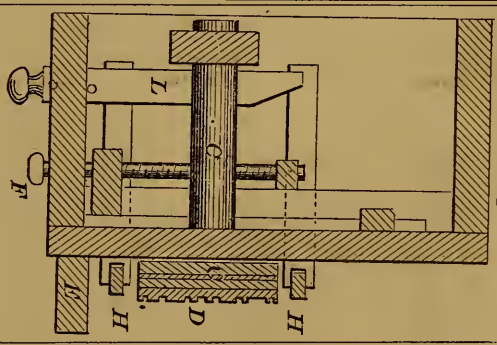


79716—J. H. Yocum—*Stove Grate.*

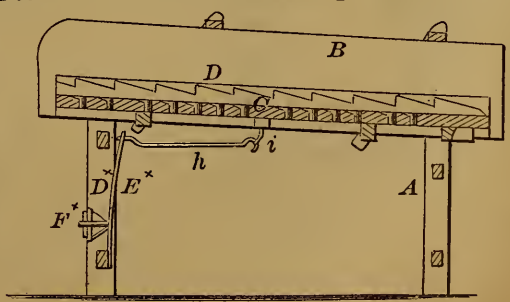




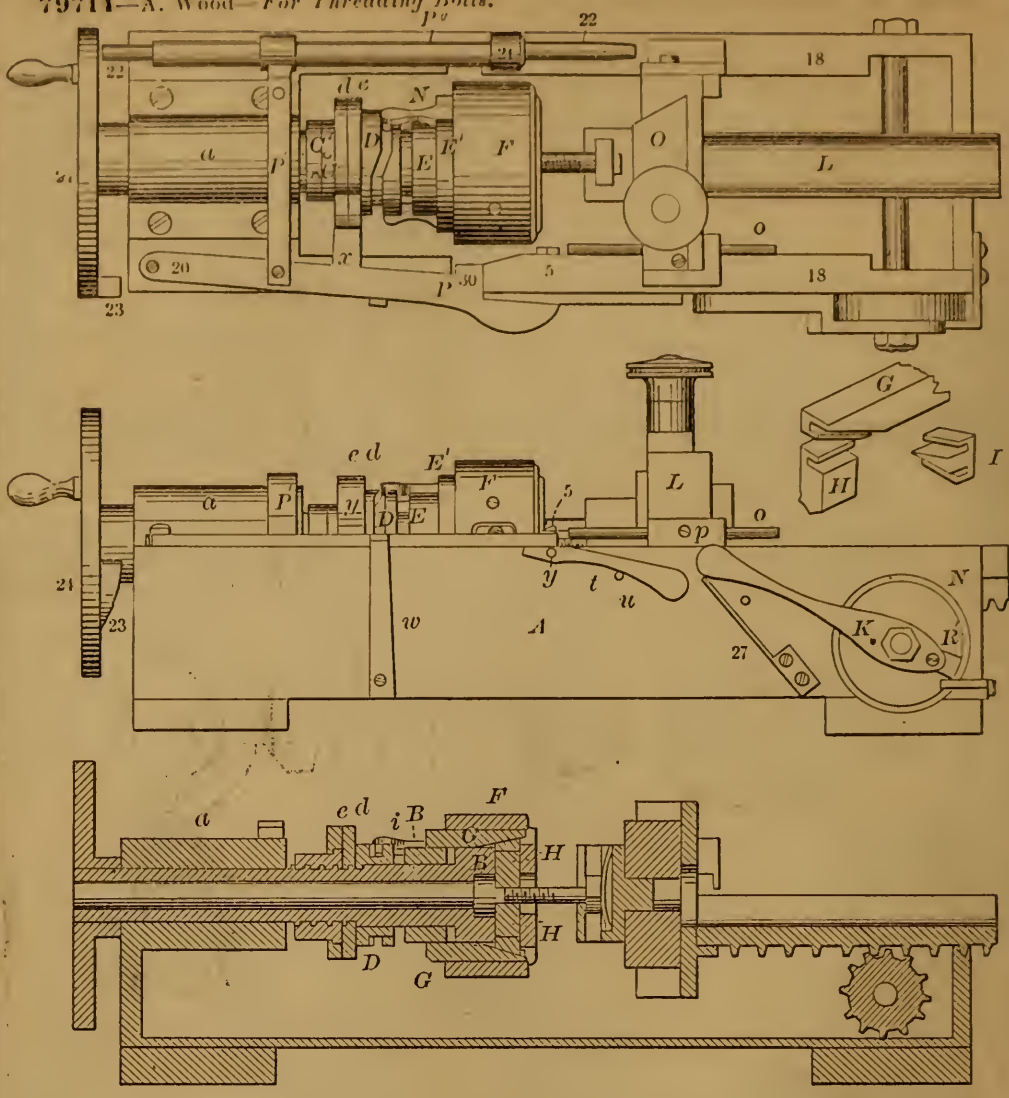
79713—D. B. Wingate—*For Printing upon Glass.*



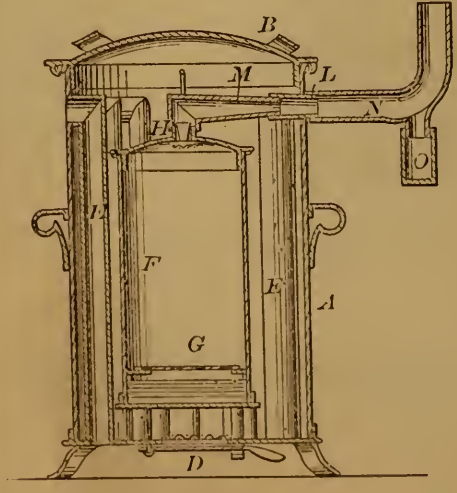
79715—D. S Yeakel—*Grain Separator.*

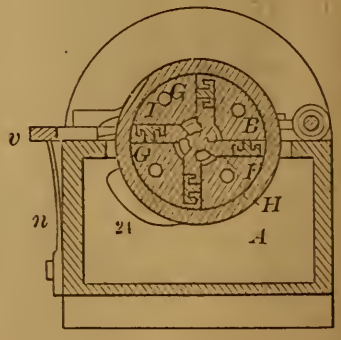


79714—A. Wood—*For Threading Bolts.*

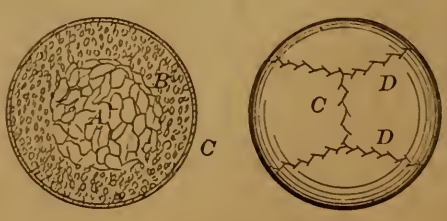


79718—F. S. Zumstein—*Heating Stove.*

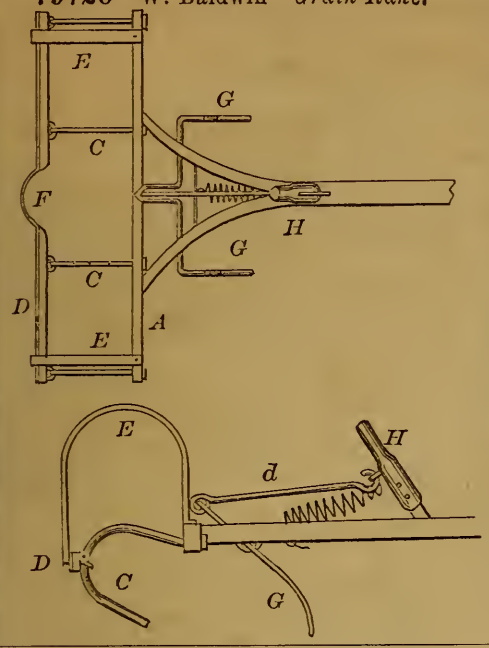




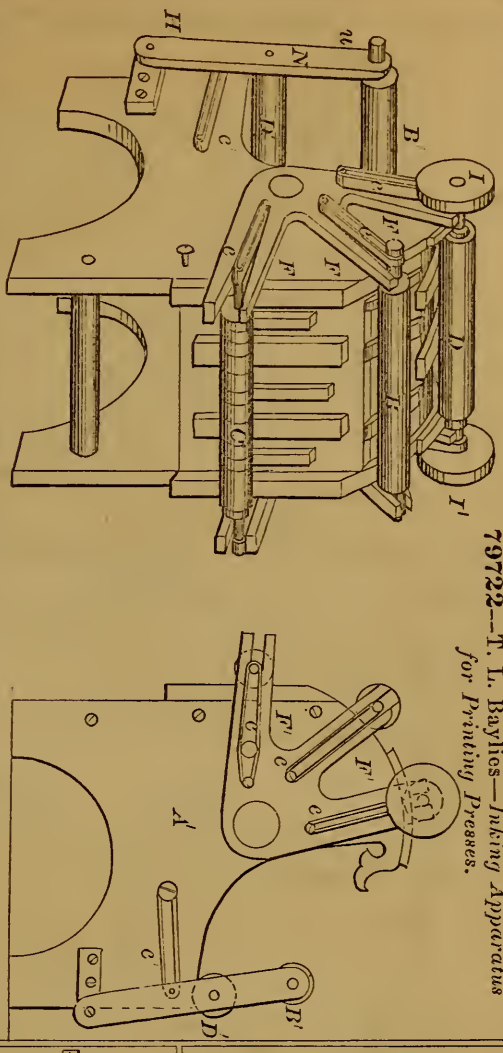
79719—H. A. Alden—*India Rubber Base Ball.*



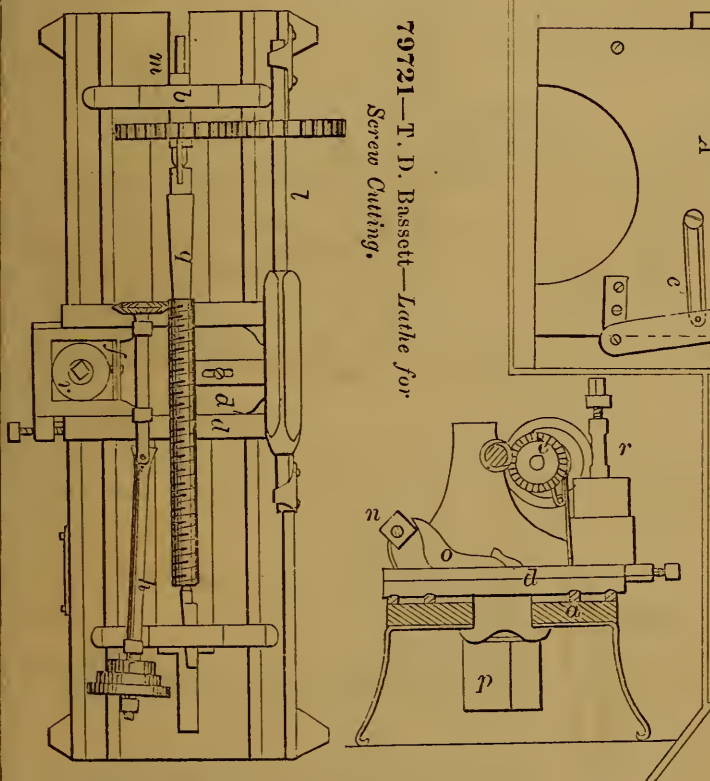
79720—W. Baldwin—*Grain Rake.*



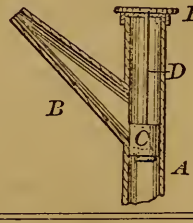
79722—T. L. Baylies—*Inking Apparatus for Printing Presses.*



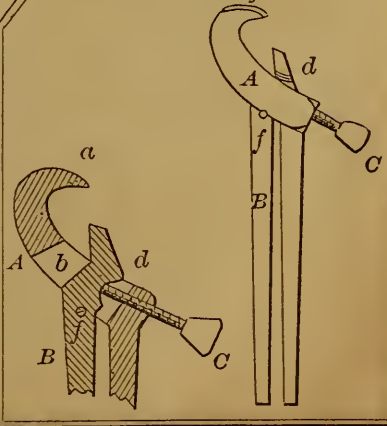
79721—T. D. Bassett—*Lathe for Screw Cutting.*



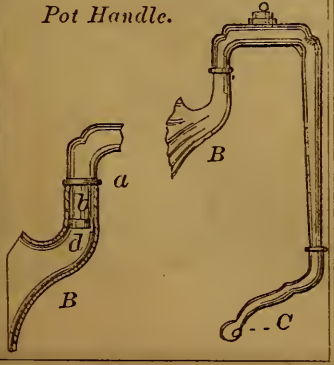
79723—E. B. Beach—*Oil Can Tube.*



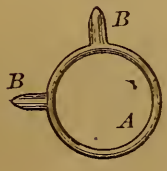
79724—J. R. Brown—*Pipe Tongs.*



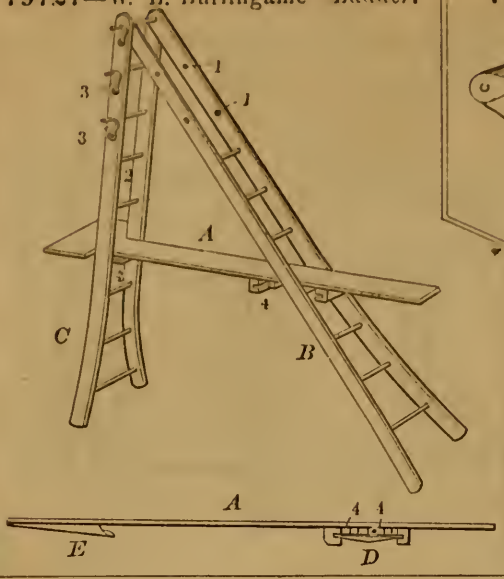
79726—H. Bullard—*Tea Pot Handle.*



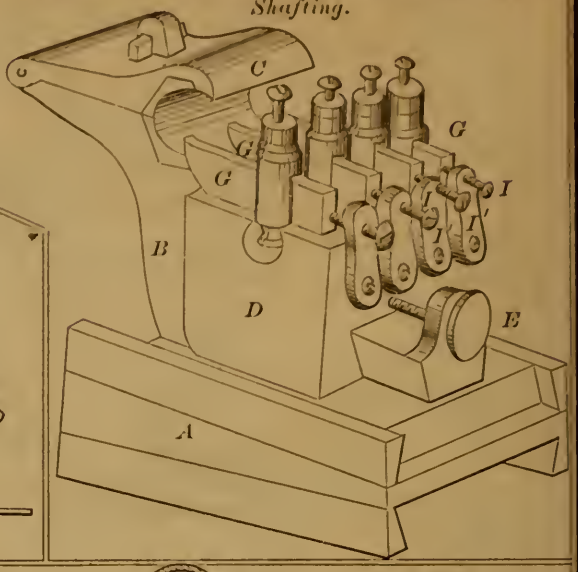
79725—G. H. Buckius—*Harness Ring.*



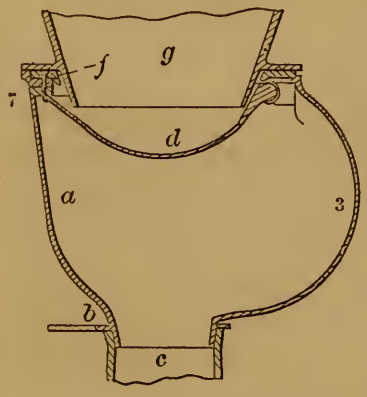
79727—W. L. Burlingame—*Ladder.*



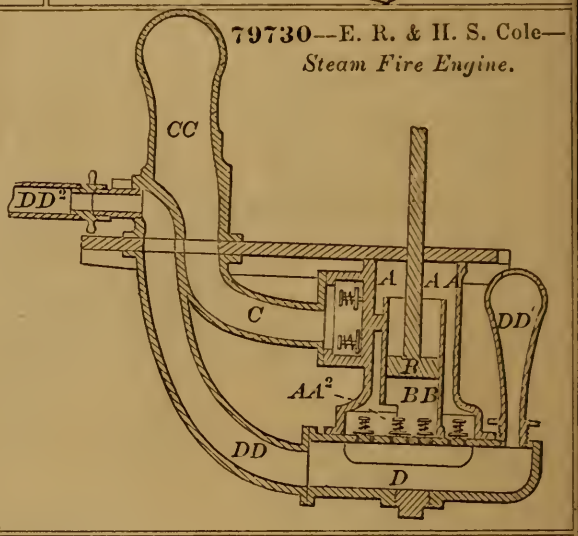
79729—J. A. Cleaveland—*Tool for Turning Shafting.*



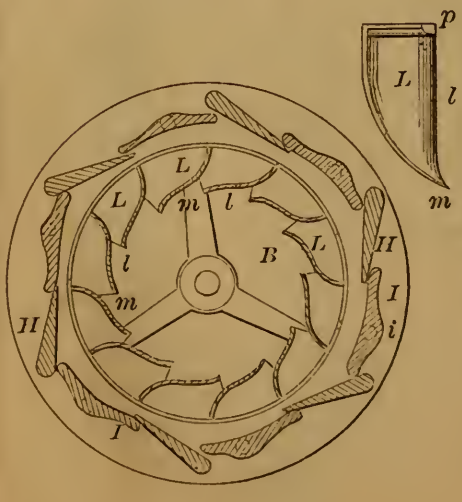
79728—W. S. Carr—*Water Closet.*



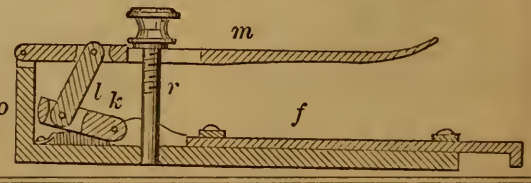
79730—E. R. & H. S. Cole—*Steam Fire Engine.*



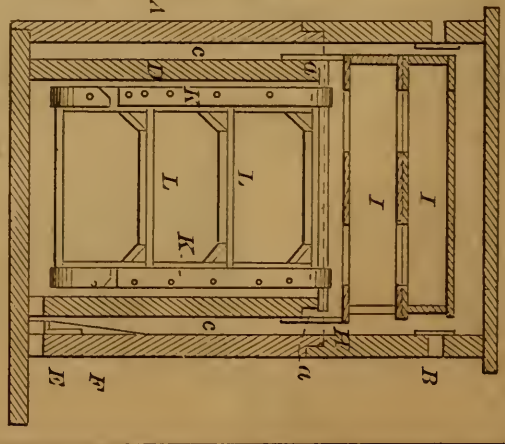
79731—J. M. Cook—*Water Wheel.*



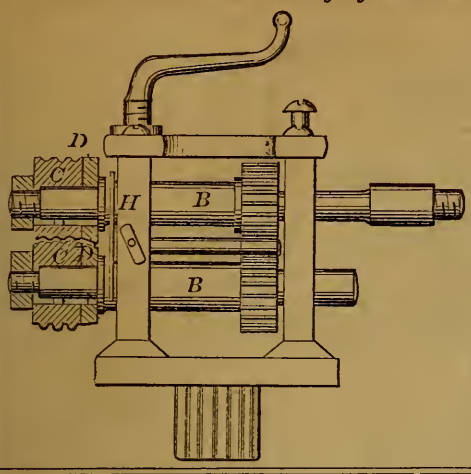
79733—H. T. Daggett—*Siding Boots and Shoes.*



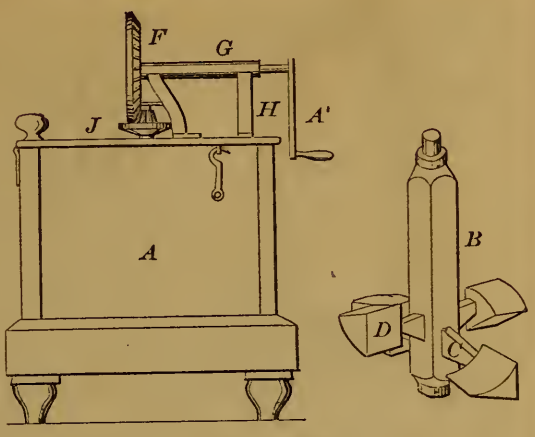
79734—O. Davis—*Beehive.*



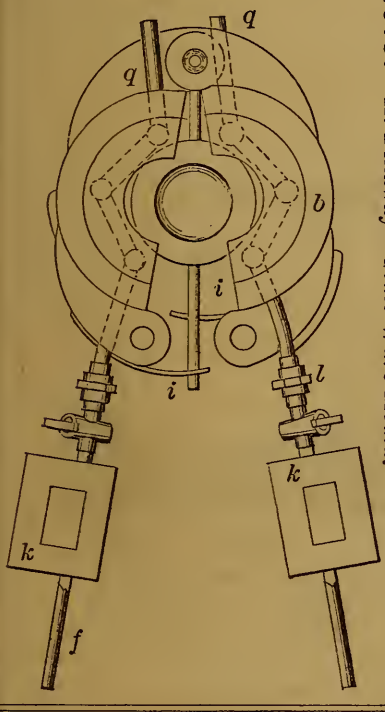
79735—F. S. De Witt—*Swaging Machine.*



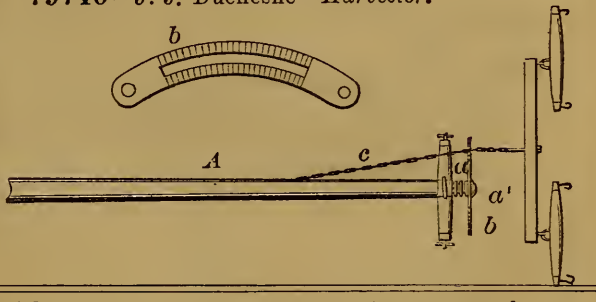
79739—G. H. Dow—*Churn.*



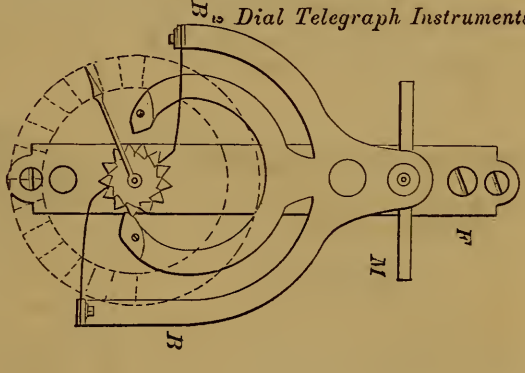
79737—H. Dillaway—*Glass Ware Mould.*



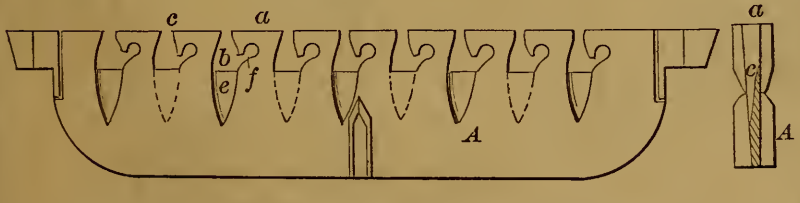
79740—J. J. Duchesne—*Harvester.*



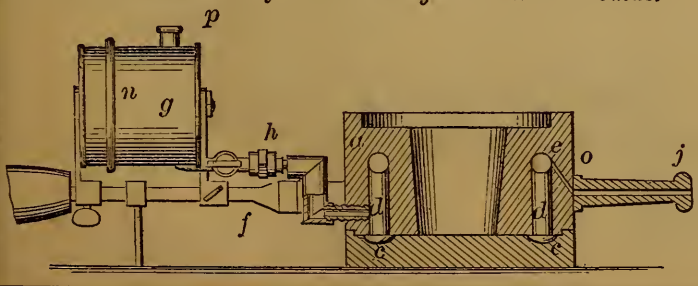
79741—Edmands & Hamblet—*Escapement for Dial Telegraph Instruments.*



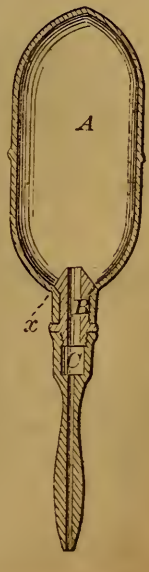
79743—A. C. Fletcher—*Grate Bar.*



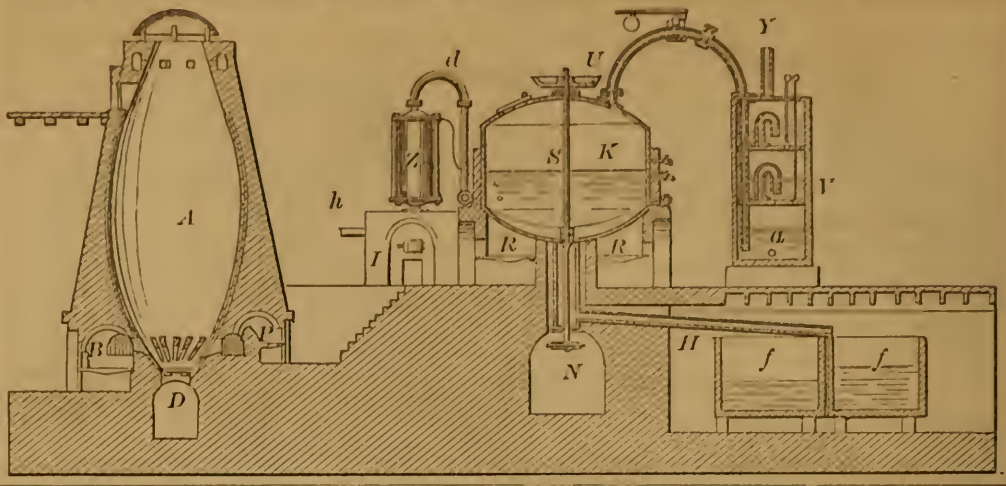
79738—H. Dillaway—*For Cooling Glass Ware Moulds.*



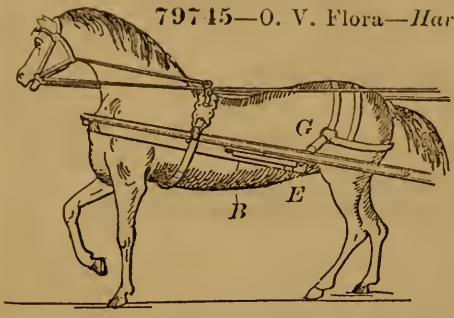
79742—M. Faloon—*Syringe.*

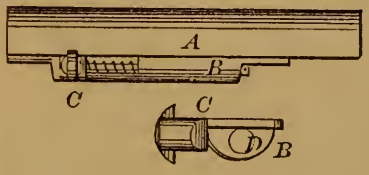


79744—A. L. Fleury—*For Extracting Metals.*

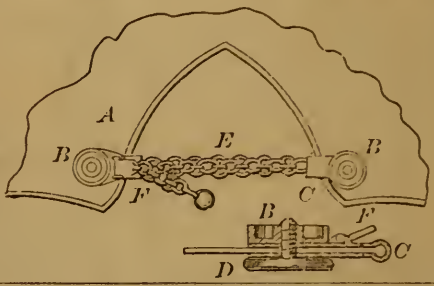


79745—O. V. Flora—*Harness.*



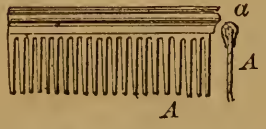


79746—M. B. Foote—*Glove Fastening.*

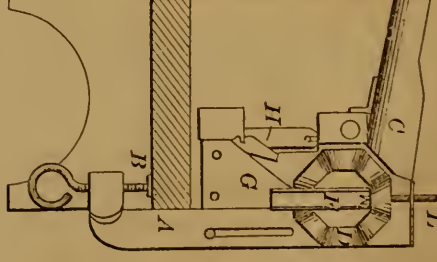


79750—W. W. Goff—*Channel Buoy.*

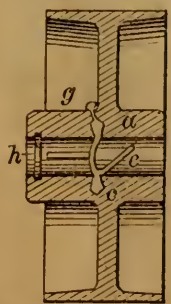
79747—C. Foster—*Comb.*

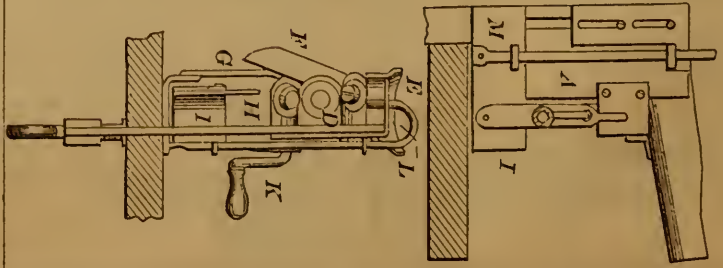


79748—G. Geer—*Cherry Stoner.*

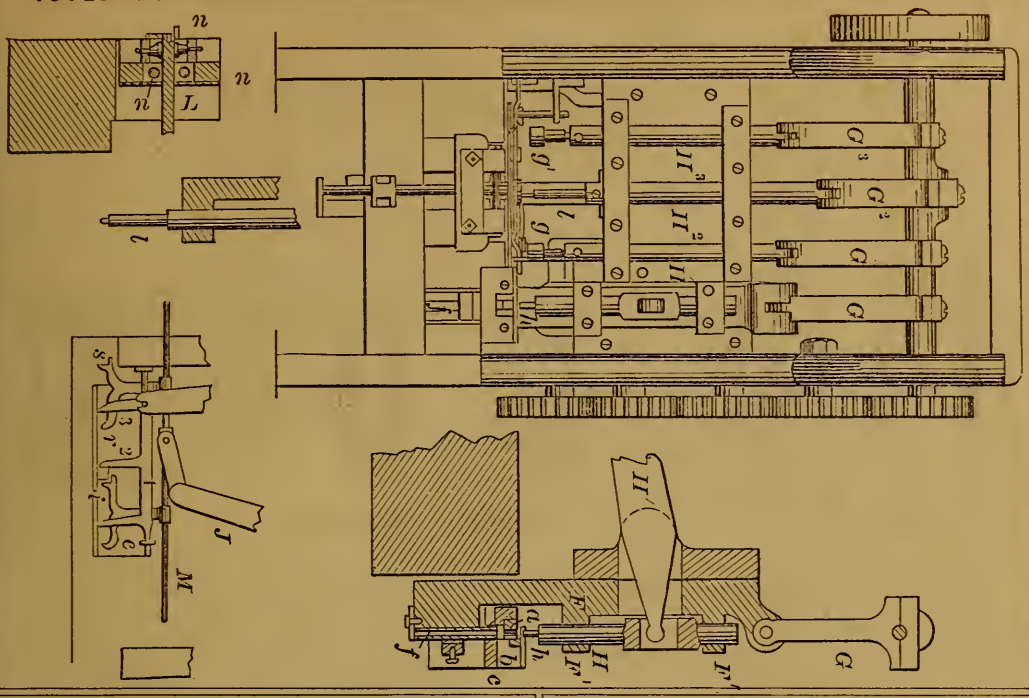


79752—D. Harrington—*Lubricating Pulley.*

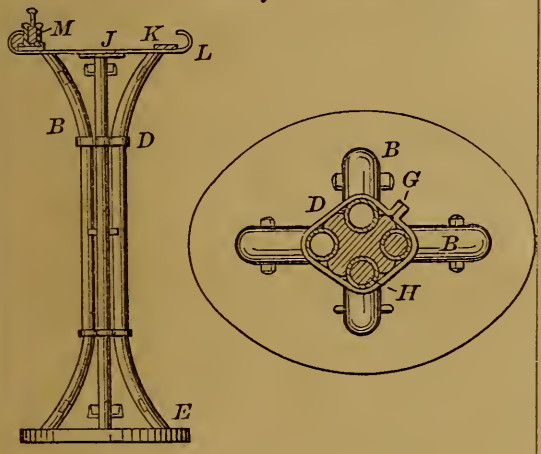




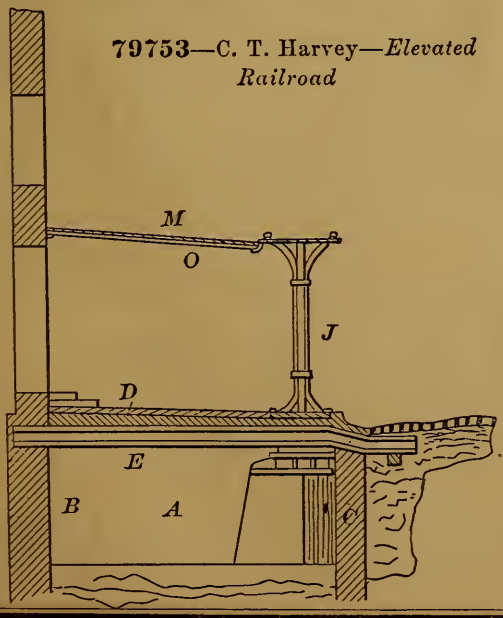
79749—A. B. Glover—*Nut Machine.*



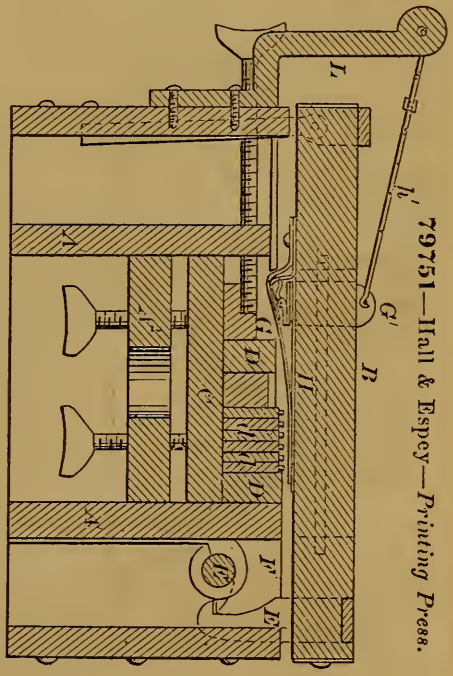
79753—C. T. Harvey—*Elevated Railroad.*



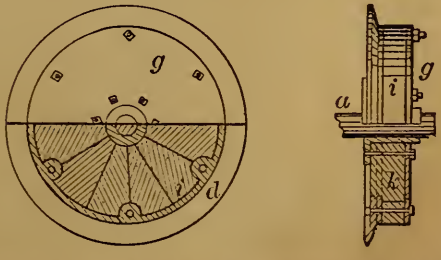
79753—C. T. Harvey—*Elevated Railroad*



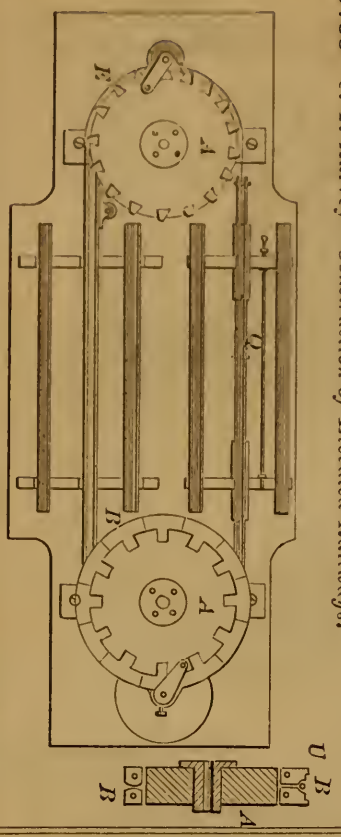
79751—Hall & Espey—*Printing Press.*



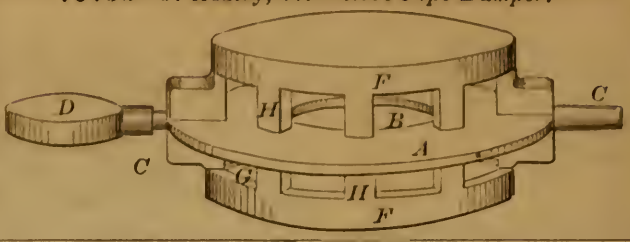
79757—C. T. Harvey—*Car Wheel.*



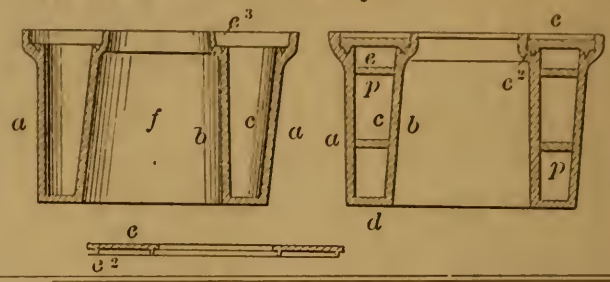
79755—C. T. Harvey—*Construction of Elevated Railways.*



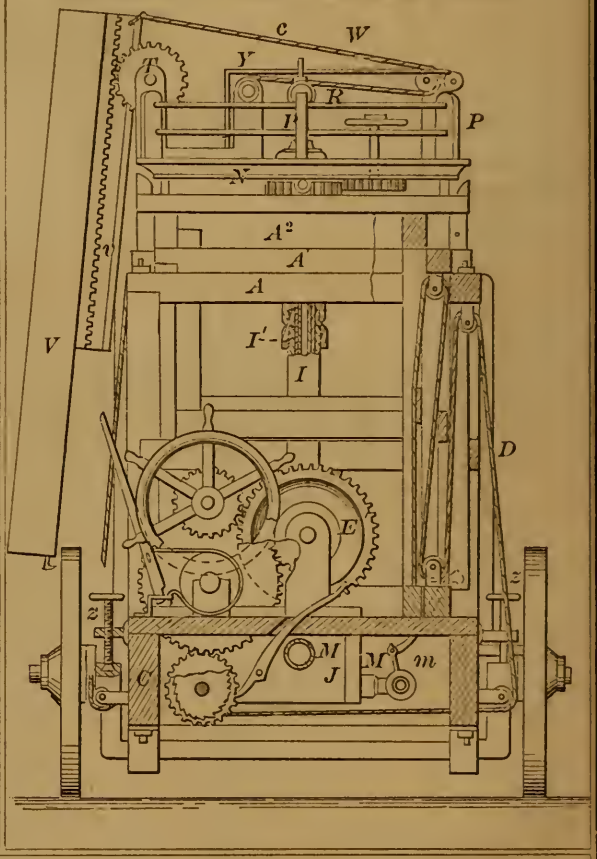
79758—J. Healey, Jr.—*Stove Pipe Damper.*



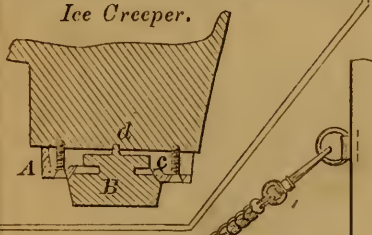
79759—J. Hibell—*Annealing Pot.*



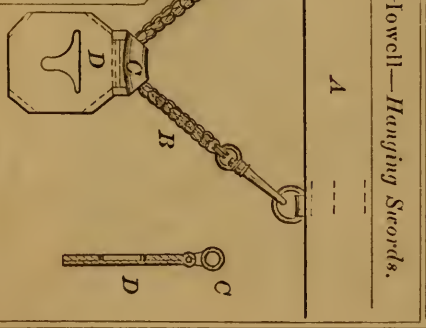
79763—R. H. Jones—*Extension Ladder.*



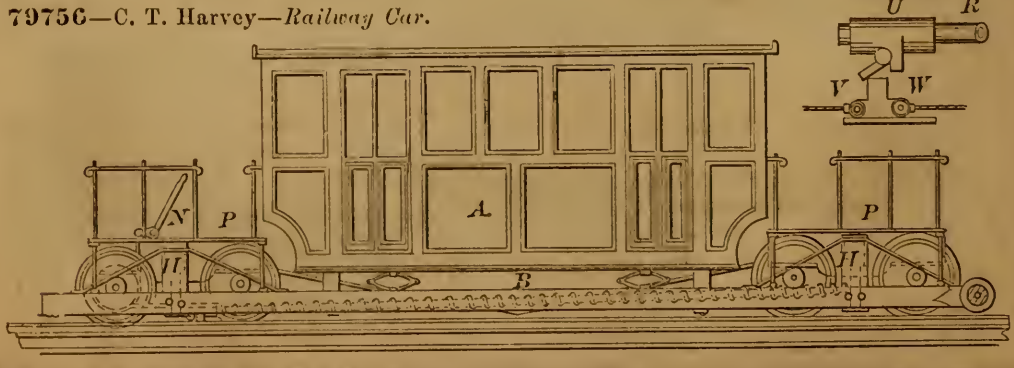
79760—L. G Hoffman—*Ice Creeper.*



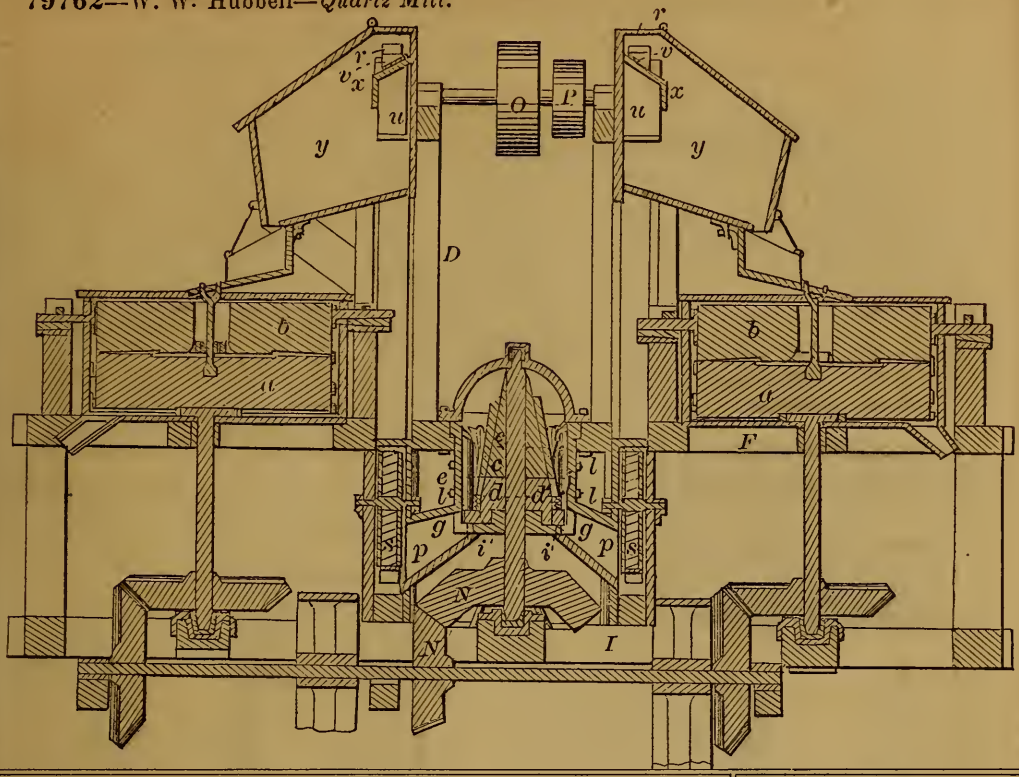
79761—D. B. Howell—*Hanging Swords.*



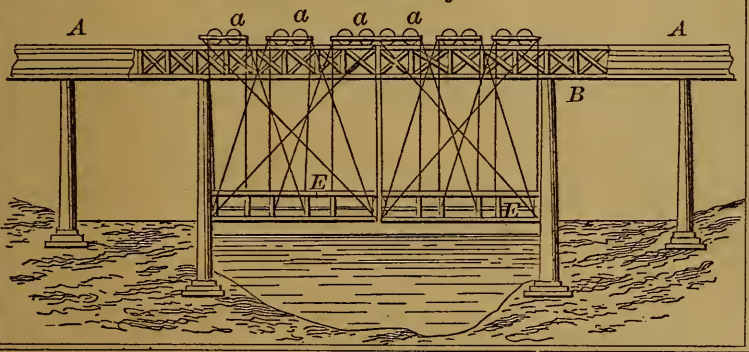
79756—C. T. Harvey—*Railway Car.*



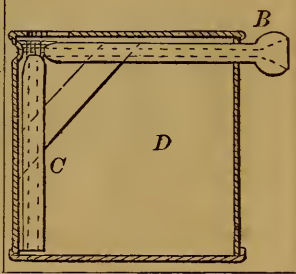
79762—W. W. Hubbell—*Quartz Mill.*



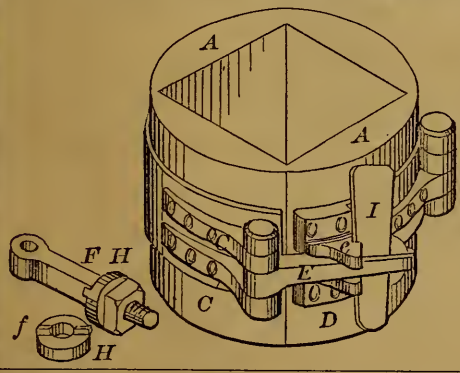
79768—C. K. Marshall—*Draw Bridge.*



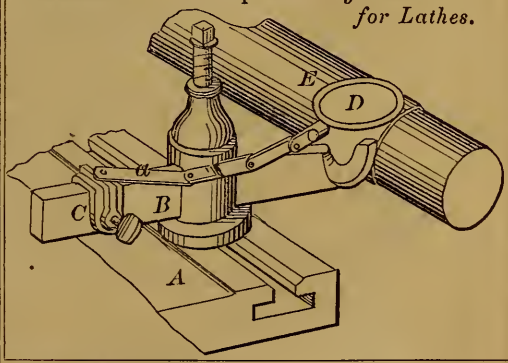
79764—H. Kraut—*For Atomizing Liquids.*



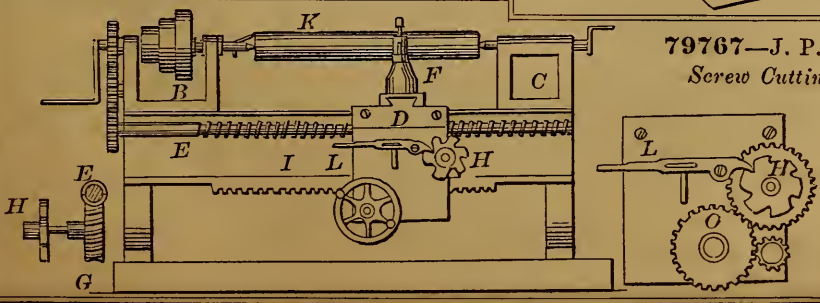
79769—J. H. McGowan—*Tobacco Compress.*



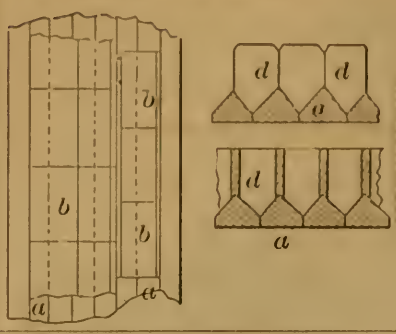
79766—C. T. Lamphere—*Eye Protector for Lathes.*



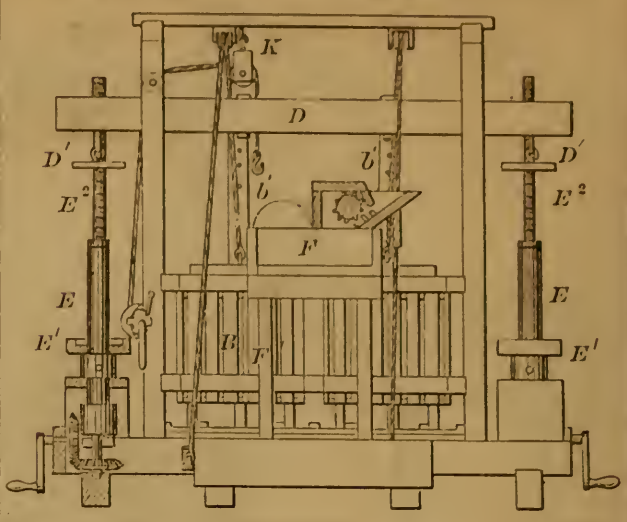
79767—J. P. T. Lang—*Screw Cutting Lathe.*



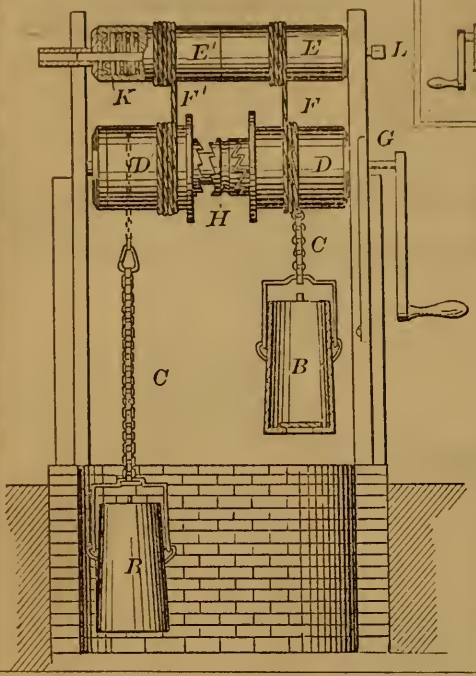
79770—B. F Miller—*Pavement.*



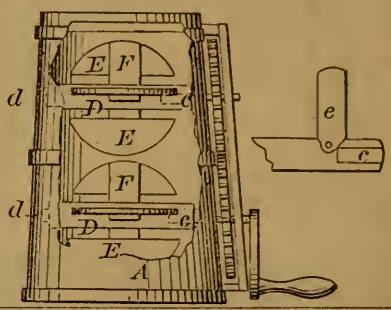
79771—W. S. Oborn—*Cider Mill.*



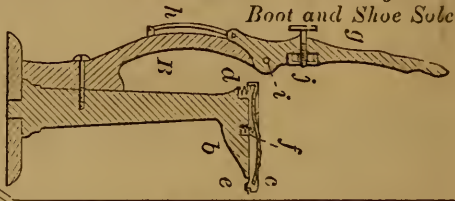
79772—W. M. Palmer
Water Elevator.



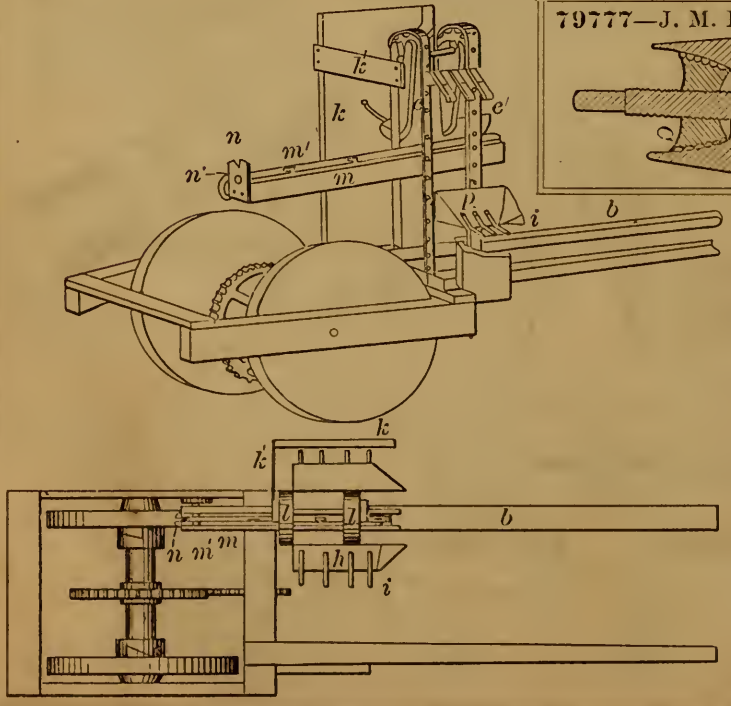
79773—P. Penington—*Churn.*



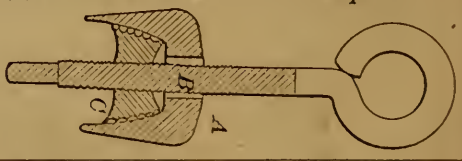
79774—Priest & Walcott—*Fastening Linings to Boot and Shoe Soles.*



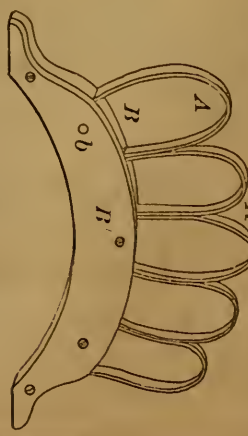
79775—E. W. Quincy—*Corn Harvester.*



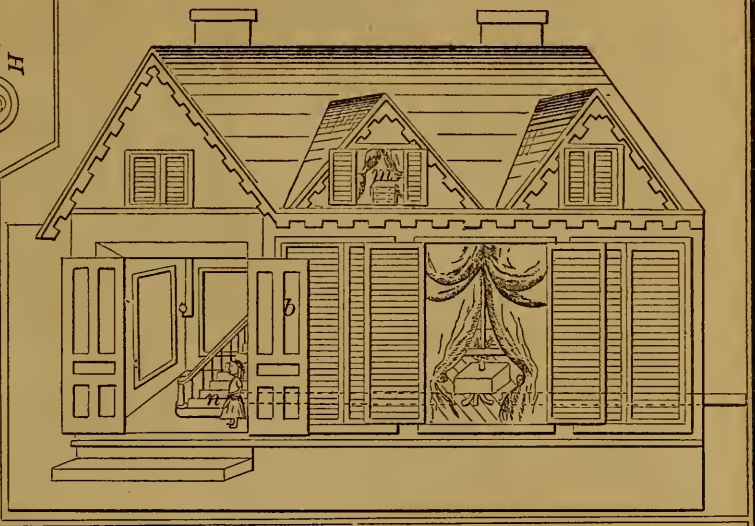
79777—J. M. Read—*Boot Crimper.*



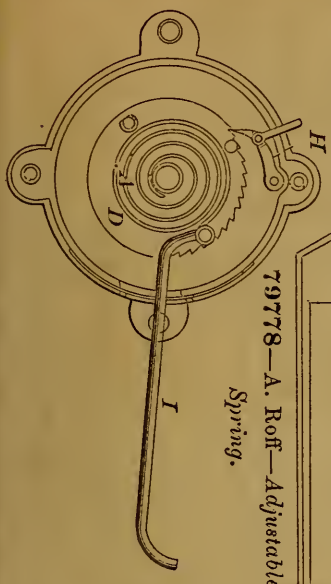
79776—A. C. Rand—*Whip Holder.*



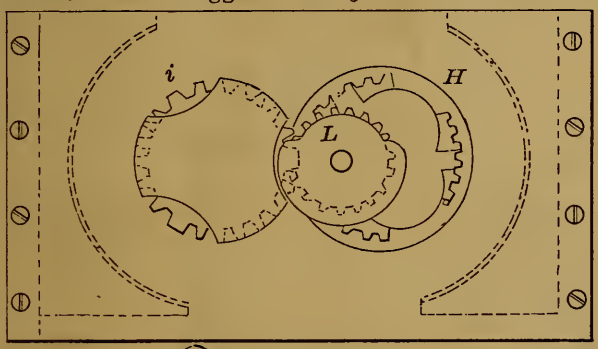
79782—E. S. Russell—*Toy House.*

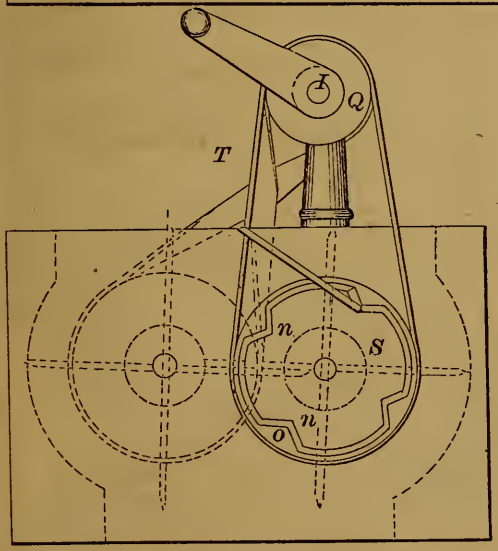


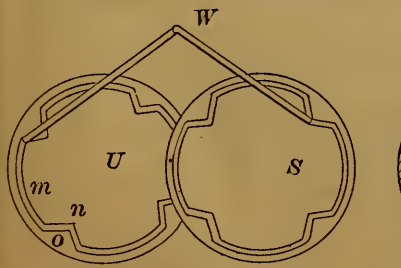
79778—A. Roß—*Adjustable Spring.*

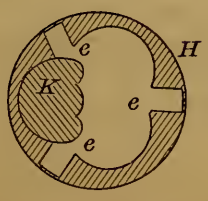


79781—S. P. Ruggles—*Rotary Fluid Elevator.*

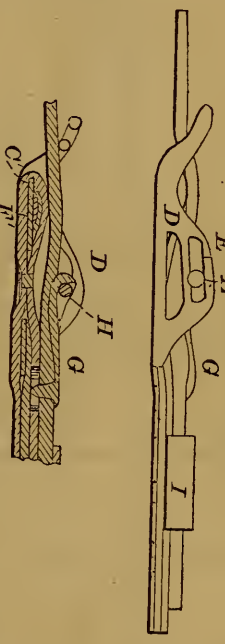




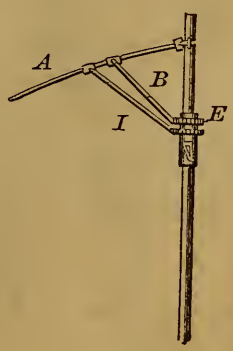




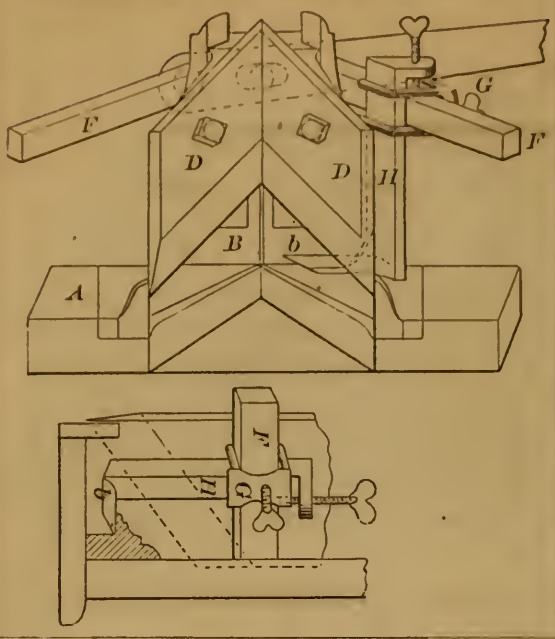
79779—I. Rorabach—*Harness Buckle.*



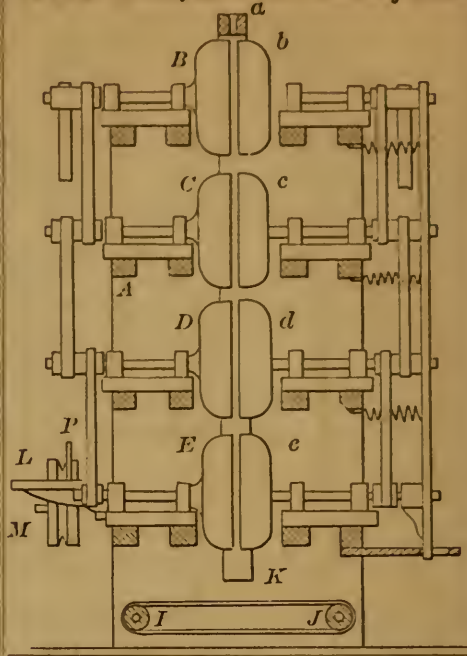
79780—L. Roth—*Umbrella.*



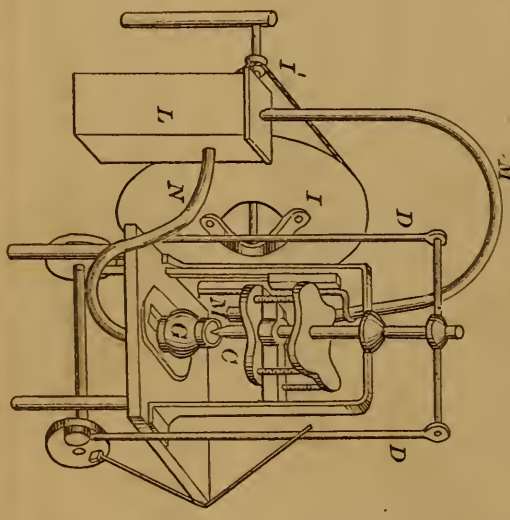
79783—J. M. Seymour—*Mitering Machine.*



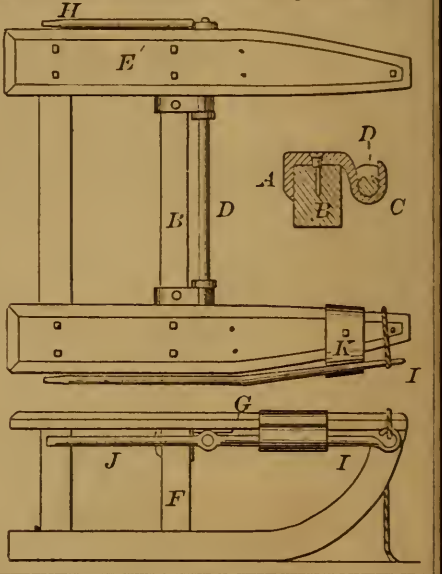
79784—E. Snyder—*For Polishing Slate.*



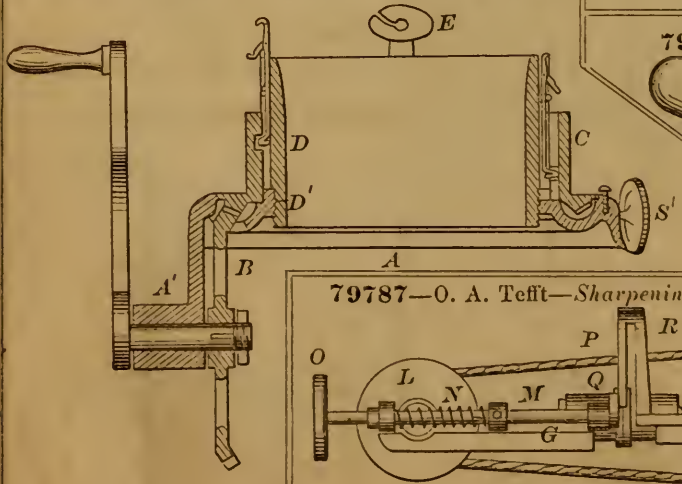
79786—M. Sweeney—*Glass Pressing Machine.*



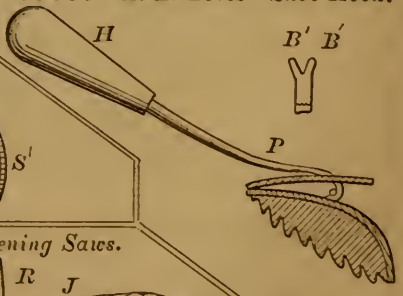
79785—G. B. Stevens—*Sleigh Brake.*



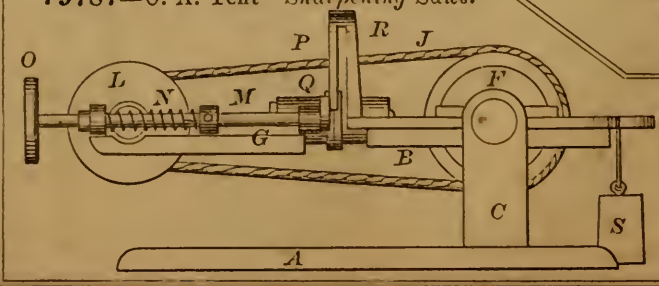
79789—Twombly & Noyes—*Knitting Machine.*



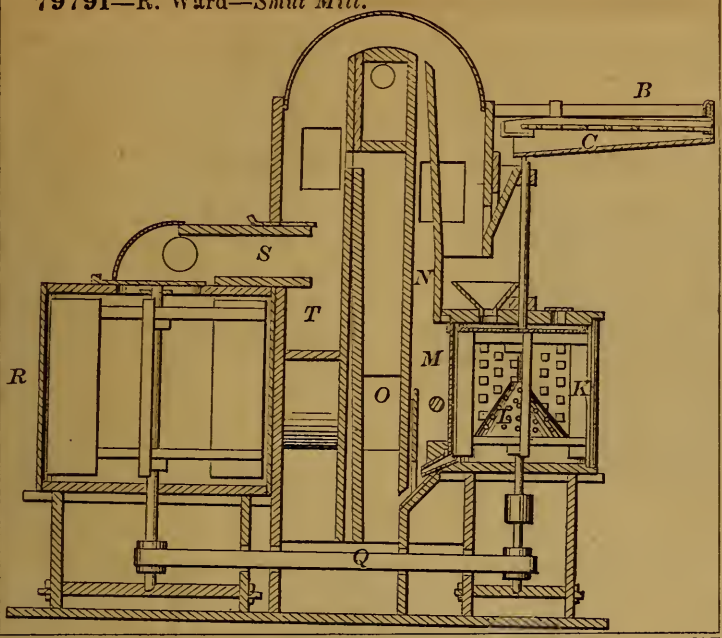
79788—E. L. Tevis—*Shoe Hook.*



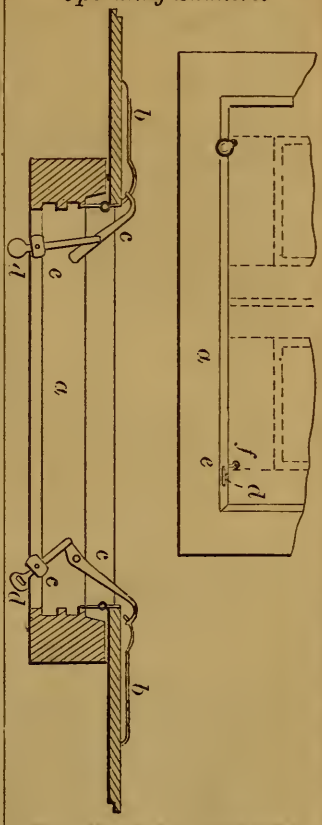
79787—O. A. Tefft—*Sharpening Saws.*



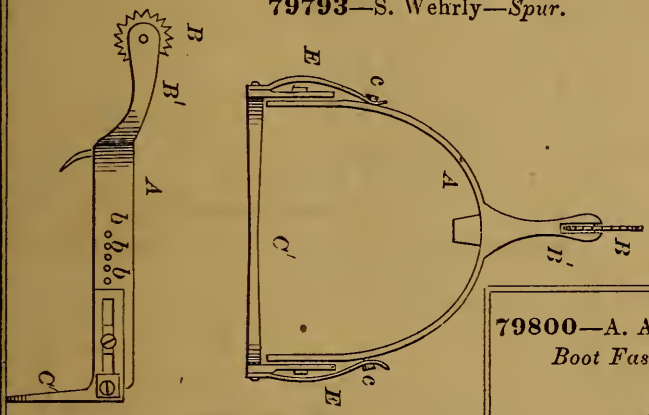
79791—R. Ward—*Smut Mill.*



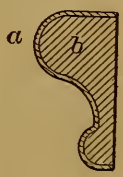
79792—T. Watson—*For Operating Shutters.*



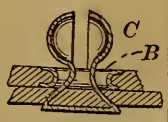
79793—S. Wehrly—*Spur.*



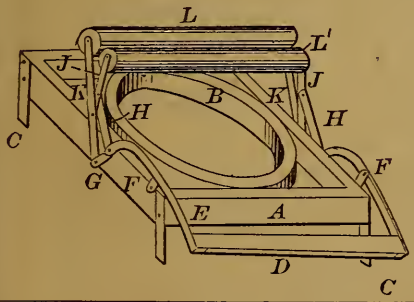
79794—S. Whitmarsh—*For Forming Moulded and Coated Articles.*



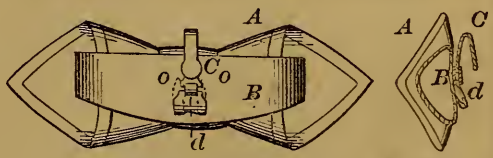
79800—A. A. Abbot—*Boot Fastening.*



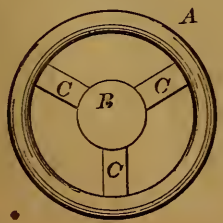
79795—H. B. Willoughby—*Mop Wringer*



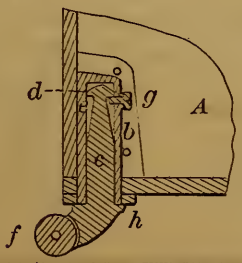
79796—E. Woodward—*Necktie Fastening.*



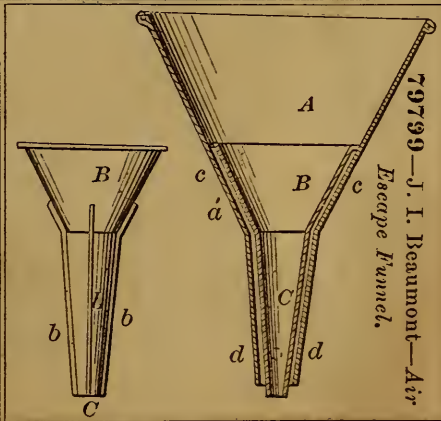
79797—W. Yates—*Harness Ring.*



79798—W. H. & L. Young—*Trunk Caster.*

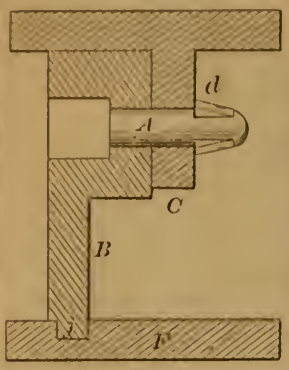


79799—J. I. Beaumont—*Air Escape Funnel.*

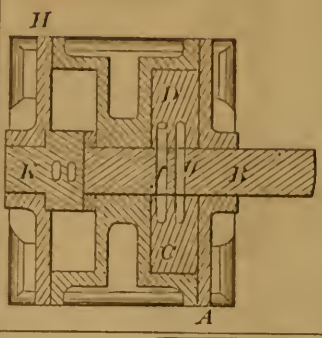


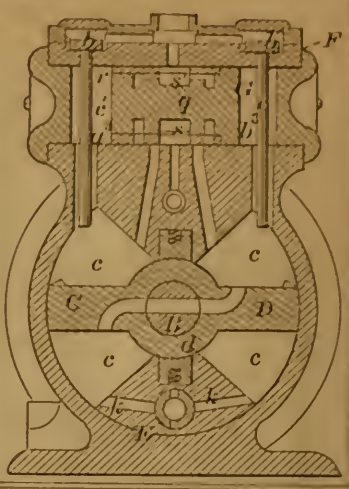
79801—A. W. Adams—*Self-Locking Bolt for Meter Safes.*

Fig. 4

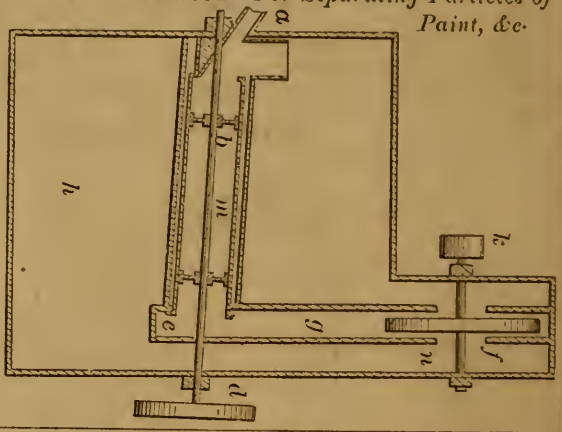


79803—J. S. Barden—*Rotary Steam Engine.*





79802—W. Atwood—*For Separating Particles of Paint, &c.*



79806—G. W. Bowlsby—*Revenue Stamp.*

Fig. 2

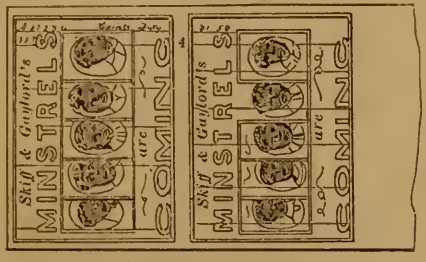


Fig. 3

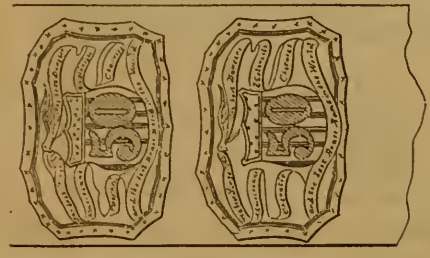
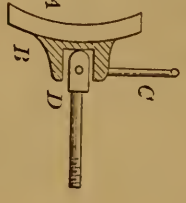
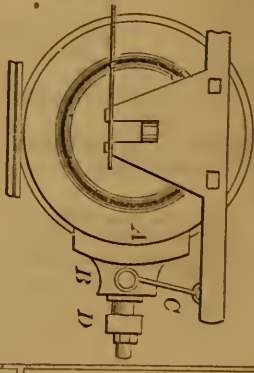


Fig. 5

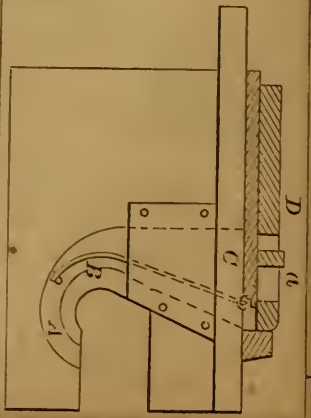
Fig. 4

79805—W. P. Blades—*Car Brake.*

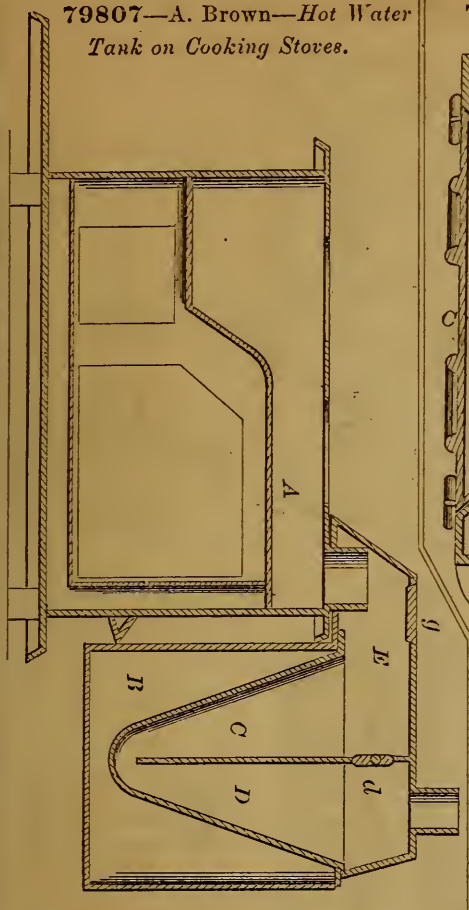




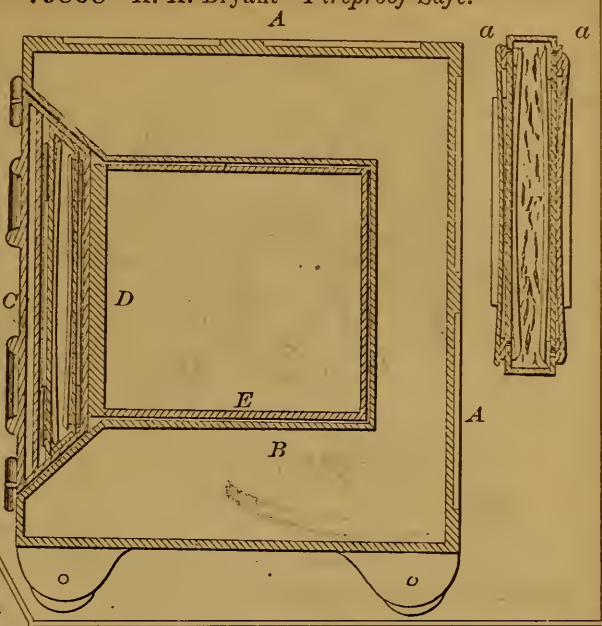
79804—J. L. Beers—*Scroll for Water Wheels.*



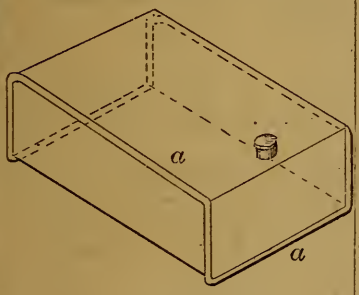
79807—A. Brown—*Hot Water Tank on Cooking Stoves.*



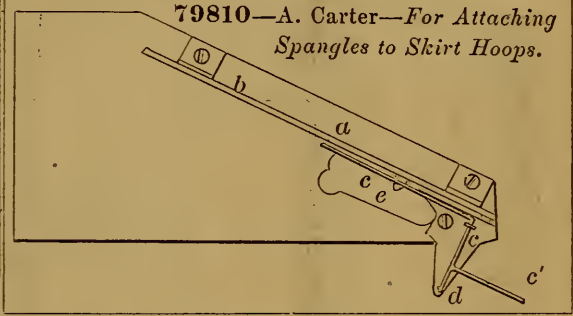
79808—H. H. Bryant—*Fireproof Safe.*



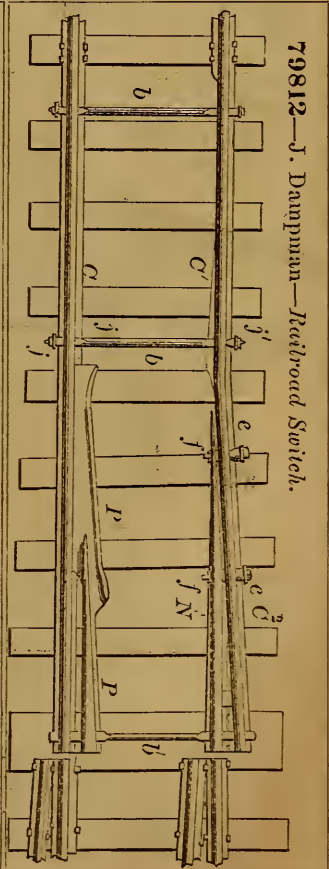
79809—H. H. Bryant—*Fireproof Structure.*



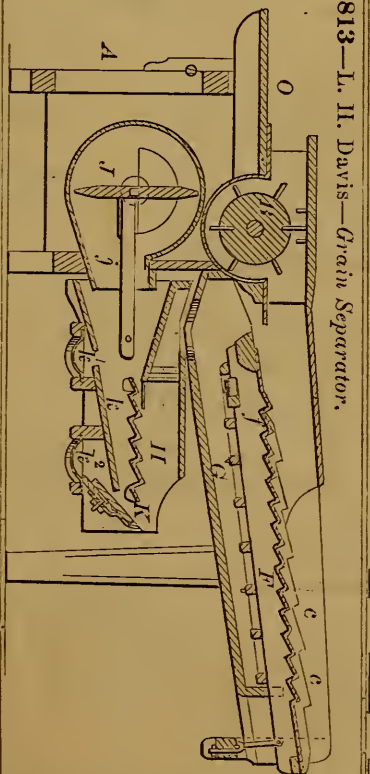
79810—A. Carter—*For Attaching Spangles to Skirt Hoops.*



79812—J. Dampman—*Railroad Switch.*

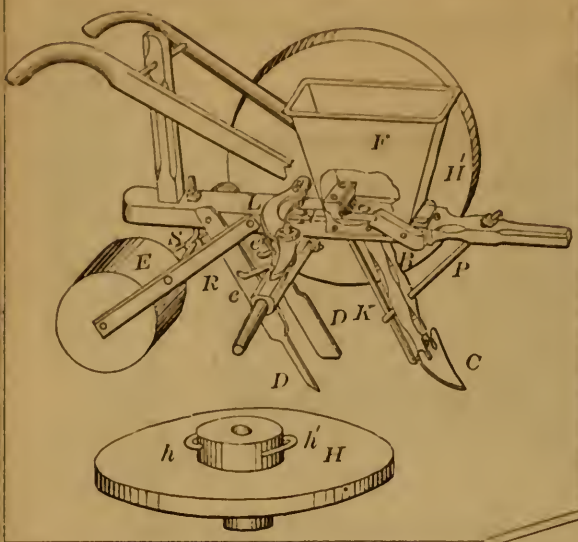


79813—L. H. Davis—*Grain Separator.*

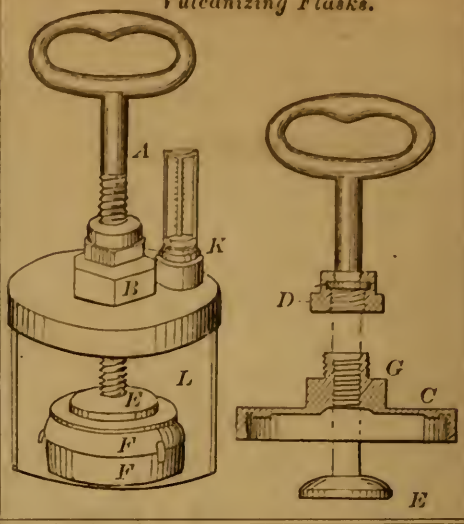


79815—E. P. Dickie—*Pick and Pickaxe.*

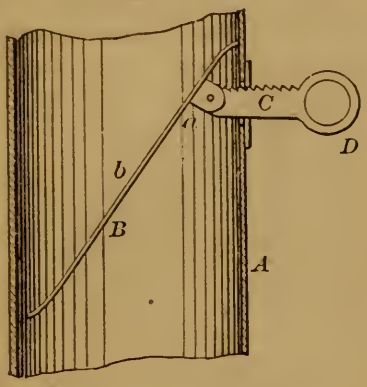
79814—G. Dickerson—*Corn Planter.*



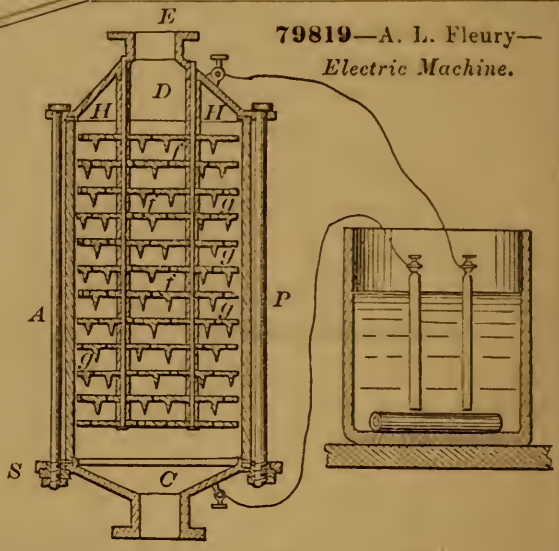
79816—H. M. Edson—*Closing Vulcanizing Flasks.*



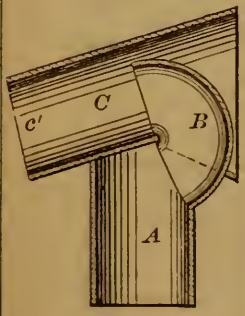
79817—L. S. Enos—*Stove Pipe Damper.*

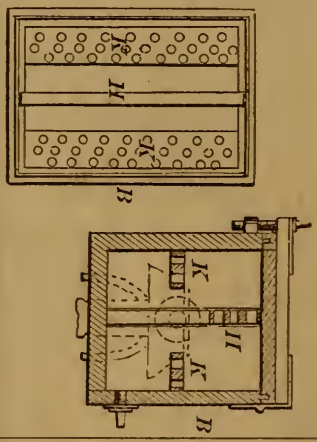


79819—A. L. Fleury—*Electric Machine.*

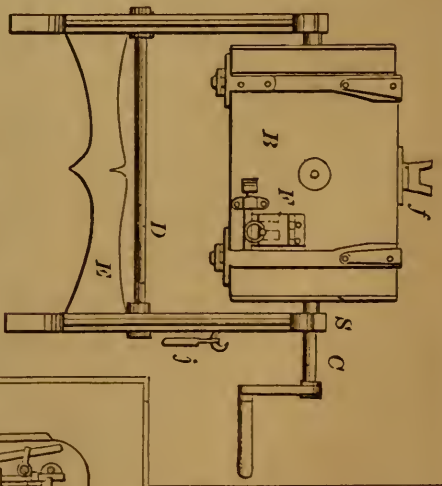


79820—J. W. Foard—*Ventilator.*

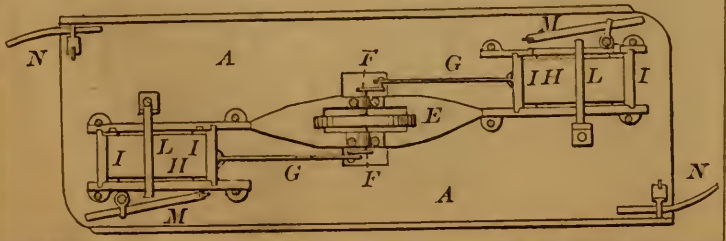




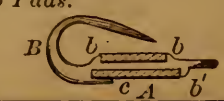
79821—J. C. Gilbert—*Churn*



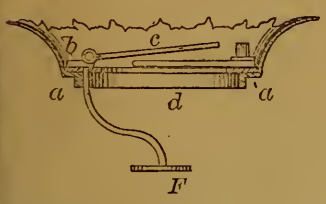
79818—S. Farrenburg—*Tool Sharpener.*



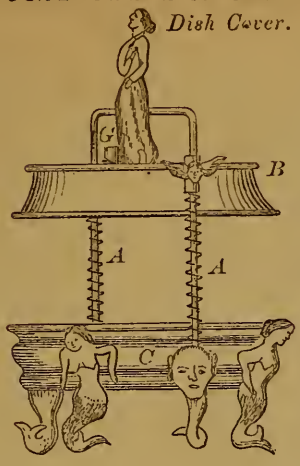
79822—G. D. Gillett—*Attaching Pad Hooks to Pads.*



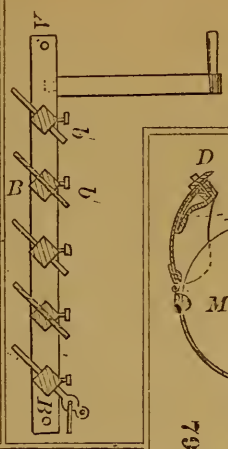
79823—Gisborne & Allman—*Lamp Chimney Attachment.*



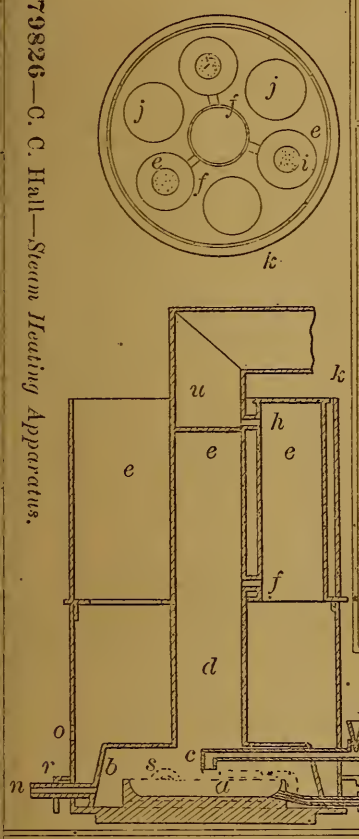
79824—H. S. & F. M. Goff—*Dish Cover.*



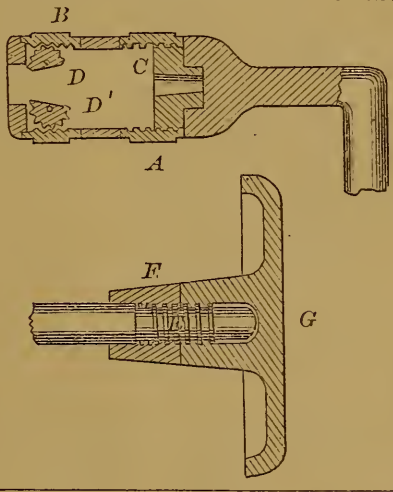
79829—A. Hochstein—*Harrow.*



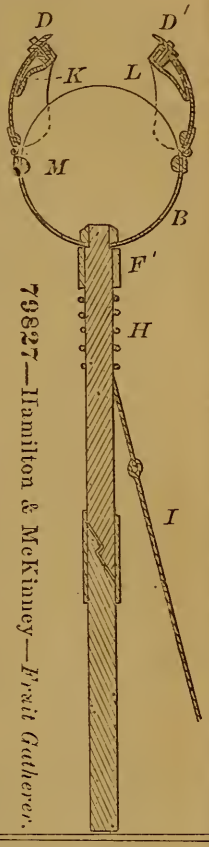
79826—C. C. Hall—*Steam Heating Apparatus.*



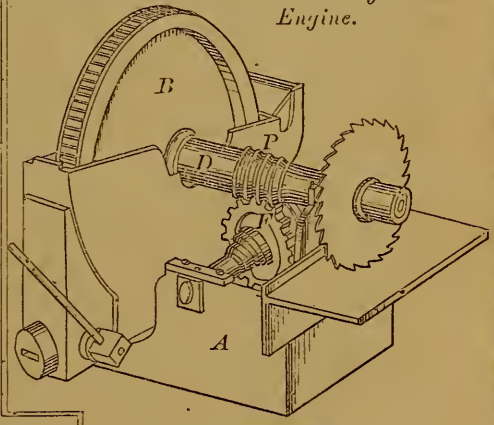
79825—A. D. Goodell—*Bit Stock.*



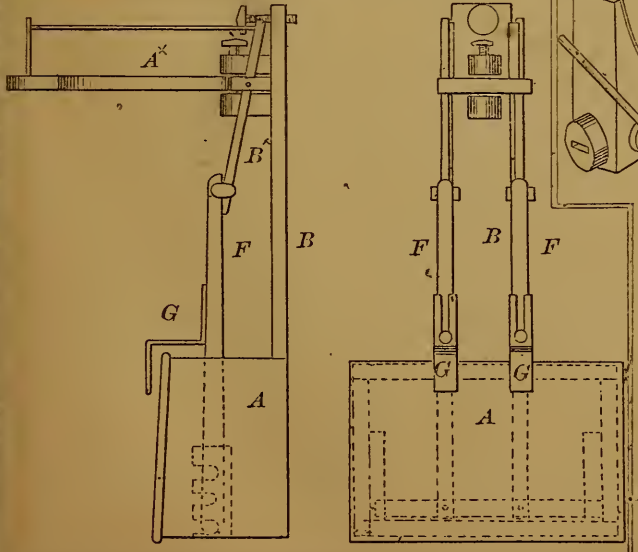
79827—Hamilton & McKinney—*Fruit Gatherer.*



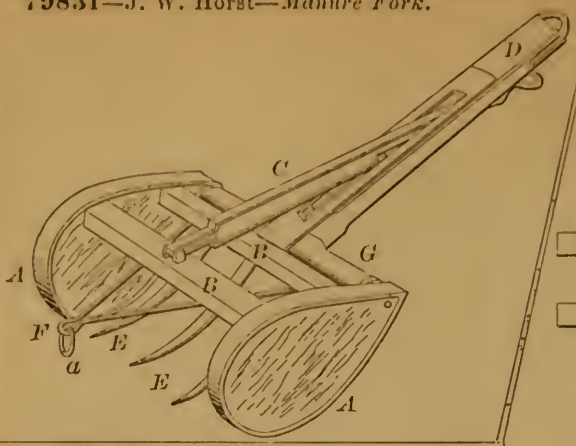
79828—C. Harrison—*Rotary Steam Engine.*



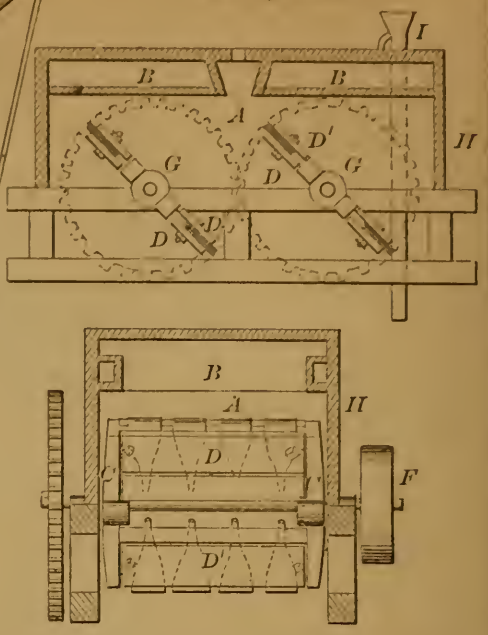
79830—R. H. Hooper—*Working Piano-Forte Pedals.*



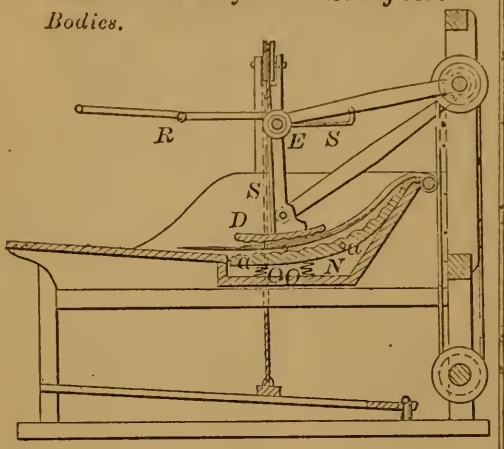
79831—J. W. Horst—*Manure Fork.*



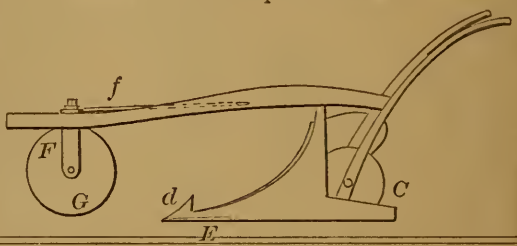
79832—A. & G. F. Howard—*For Washing Leather.*



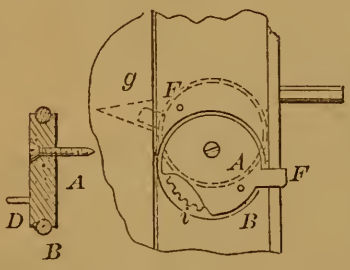
79833—W. H. Hoyt—*For Sizing Hat Bodies.*



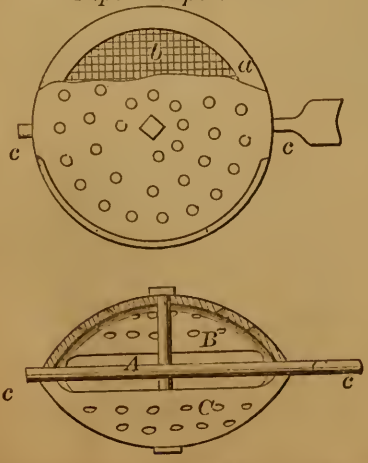
79834—A. C. Jaques—*Plow.*



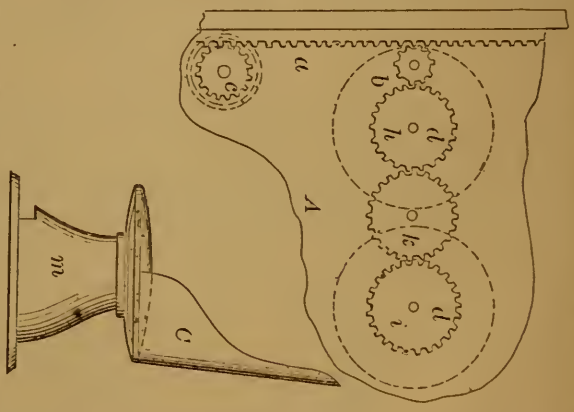
79835—J. G. Jewell—*Window Sash Stop.*



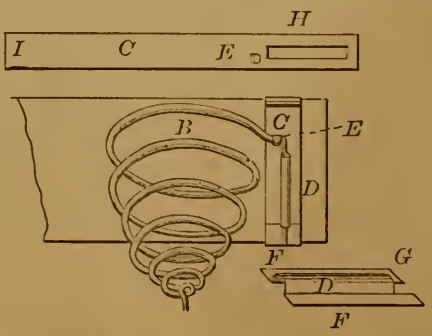
79836—J. Johnson—*Stove Pipe Damper.*



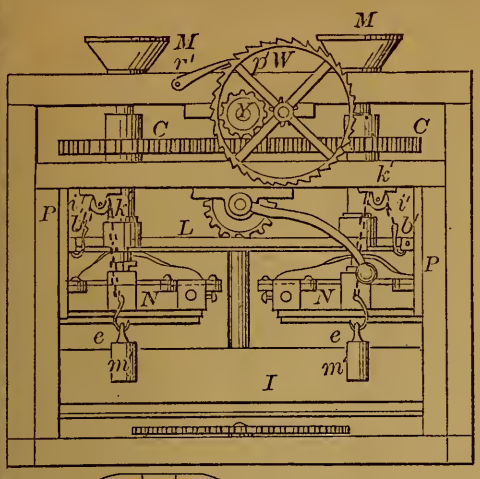
79837—C. P. Kimball—*Car Seat.*

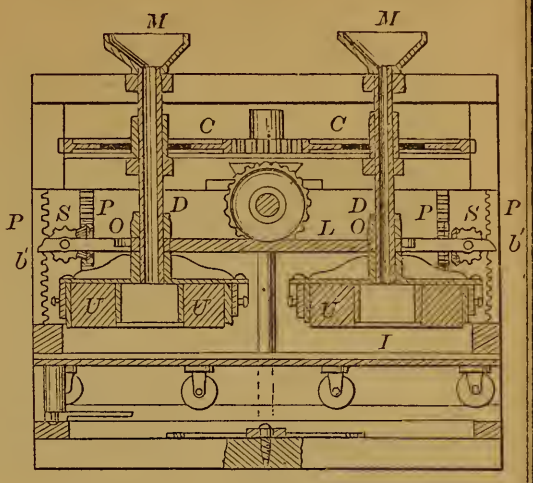


79839—Kingman & Shepard—*Spring Bed Bottom.*



79838—F. L. King—*For Dressing Stone.*





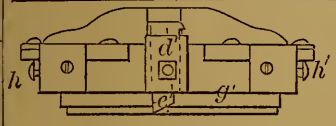


Fig. 7

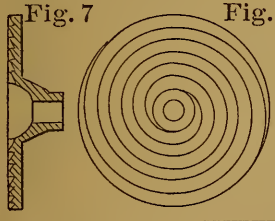


Fig. 6

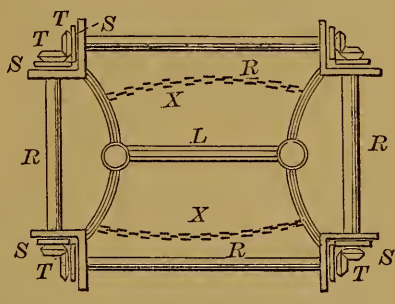
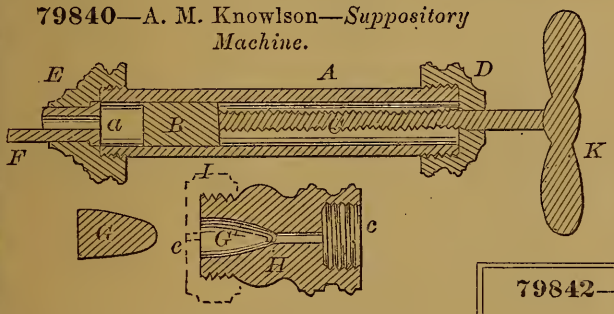
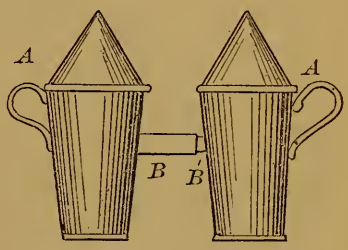


Fig. 9

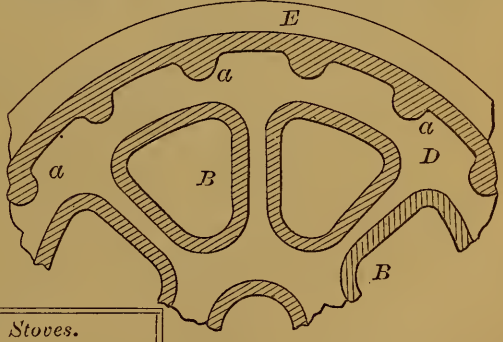
79840—A. M. Knowlson—*Suppository Machine.*



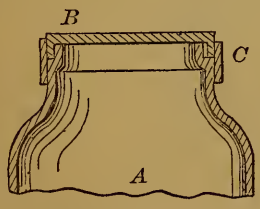
79841—J. A. Lakin—*Radiator.*



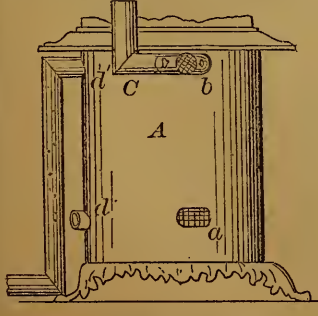
79842—G. G. Lobdell—*Car Wheel.*

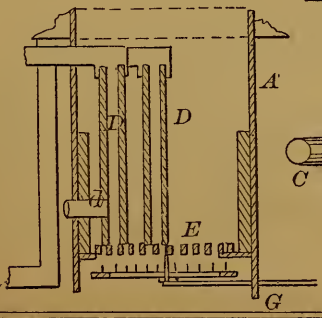


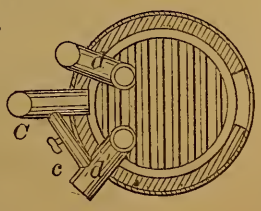
79843—W. A. Loder—*Fruit Jar.*



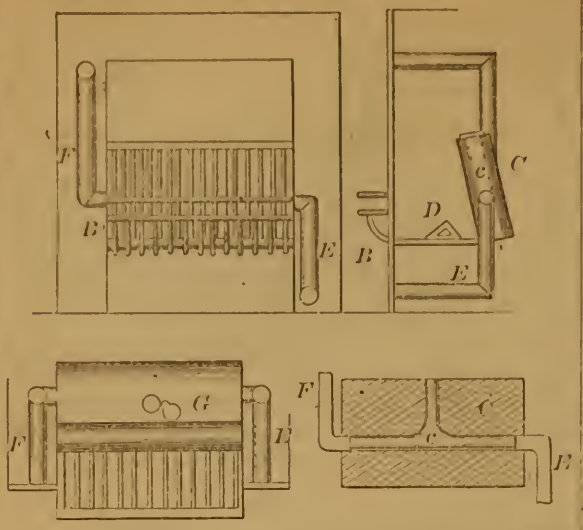
79844—C. K. Marshall—*Hot Air Flue in Stoves.*





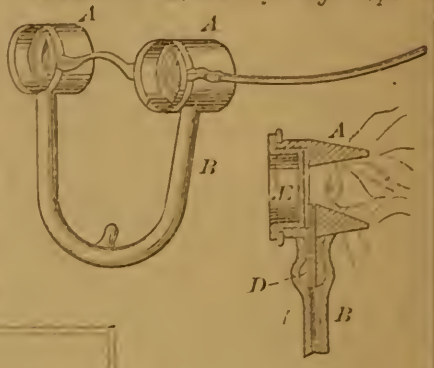


79845—C. K. Marshall—*Stove Grate.*

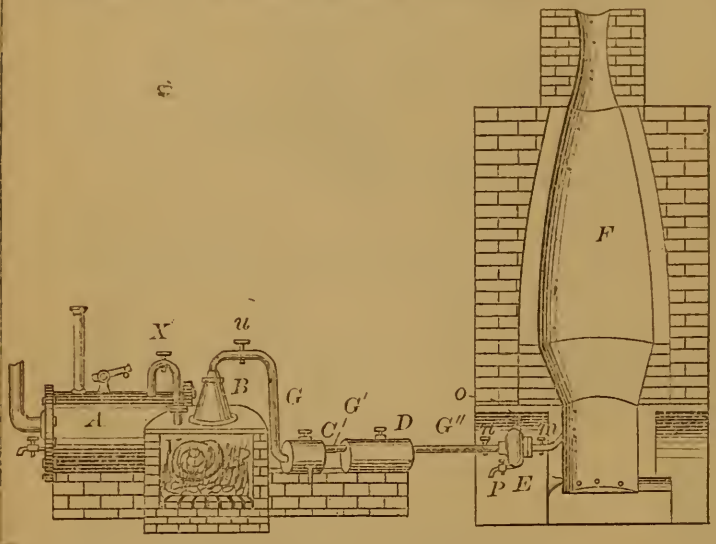


79846—W. M. Marshall—*Stair Rod.*

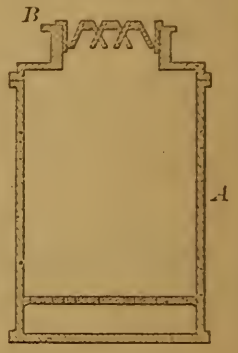
79847—B. K. Maltby—*Eye Cup.*



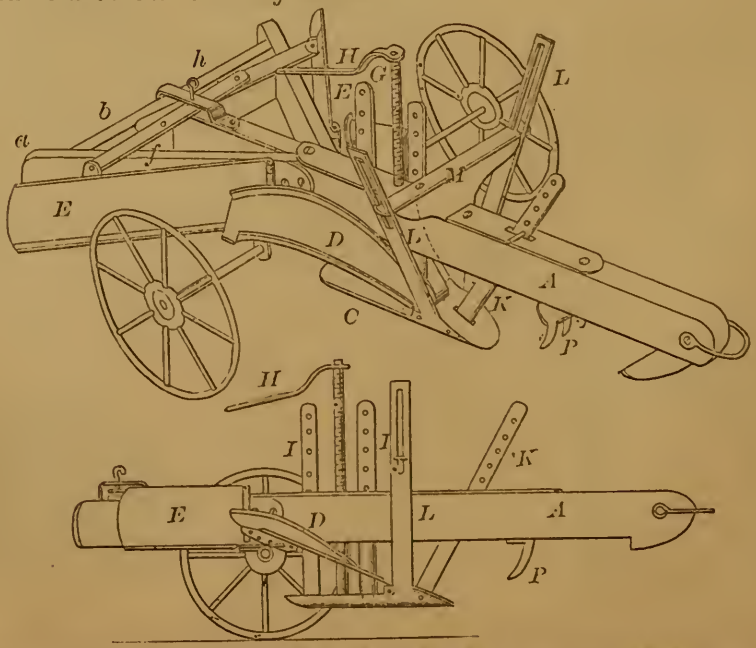
79848—J. P. McLean—*Refining and Smelting Ore.*



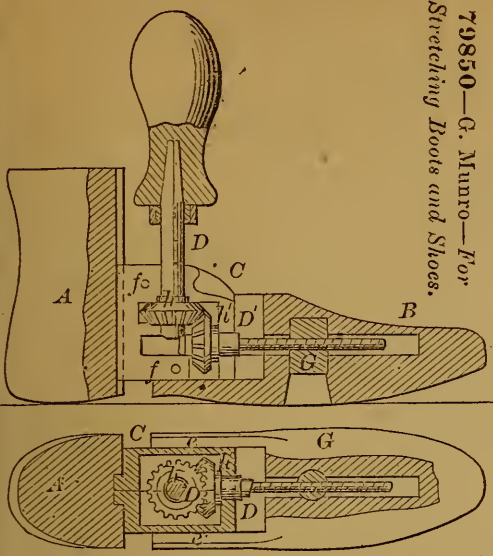
79849—J. Meyer—*For Separating Iron from Sugar.*



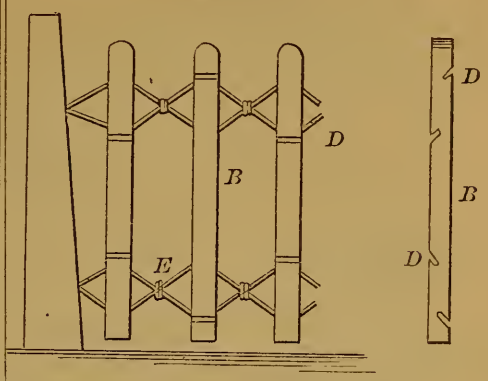
79851—O'Connor & Collins—*Ditching Machine.*



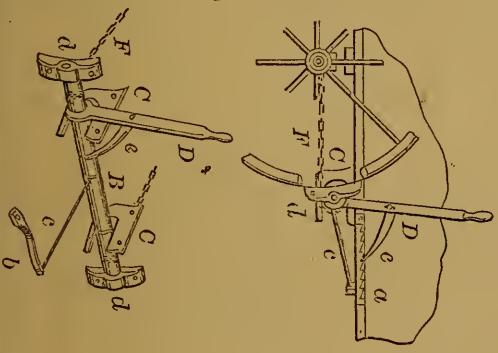
79850—G. Munro—*For Stretching Boots and Shoes.*



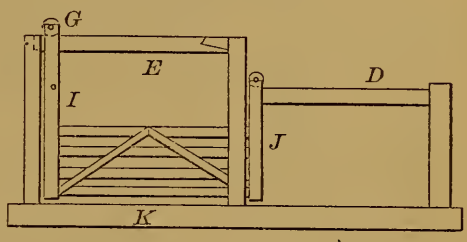
79854—E. C. Patterson—*Wire and Picket Fence.*



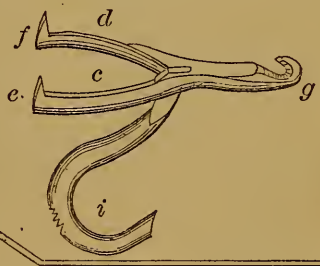
79855—D. Philips—*Wagon Brake.*



79857—J. Potter—*Gate.*



79853—J. W. Pattee—*Painters' Hook.*



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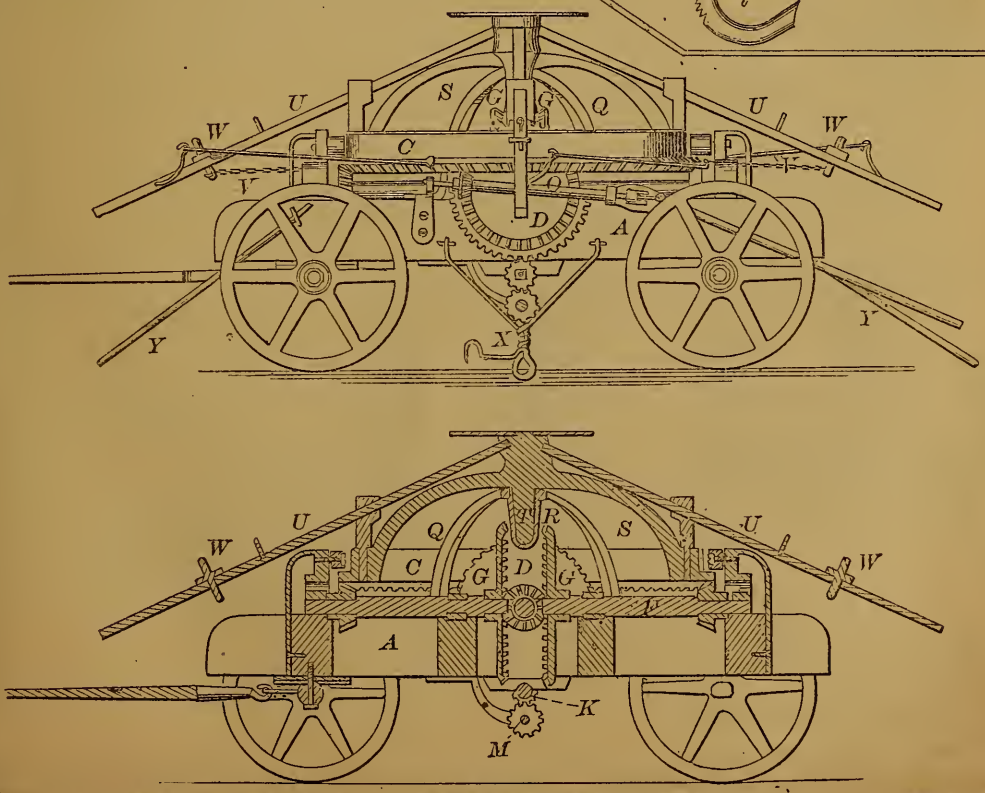
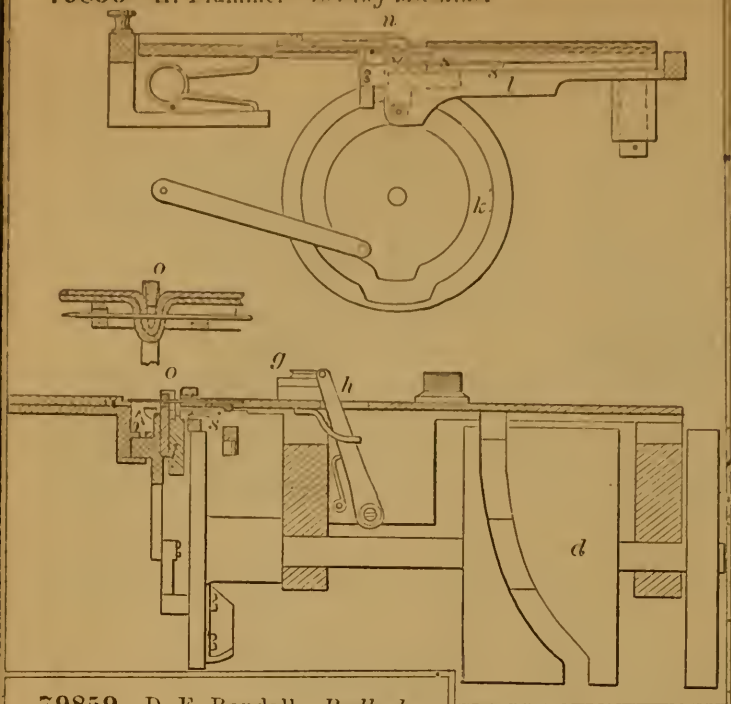
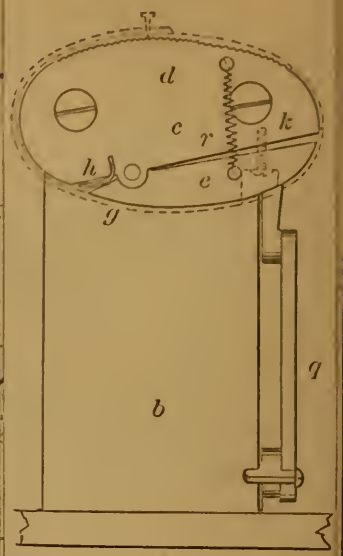


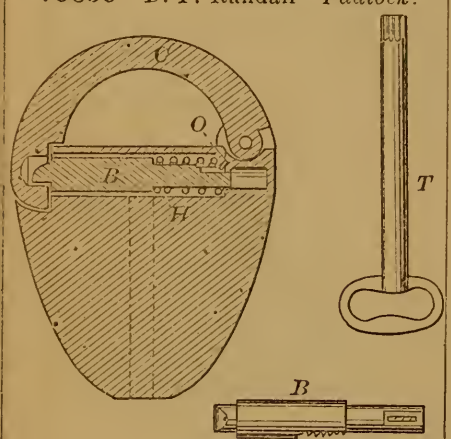
79856—H. Plummer—*Sewing Machine.*



79858—R. Ramsdell—*For Making Wooden Boxes.*



79859—D. F. Randall—*Padlock.*



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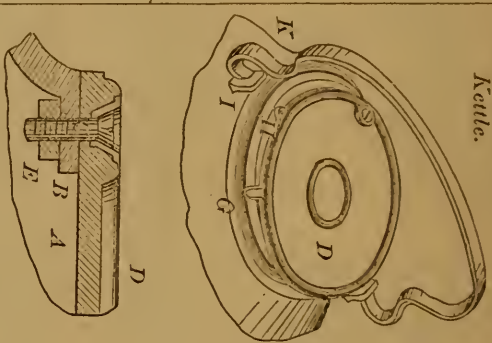
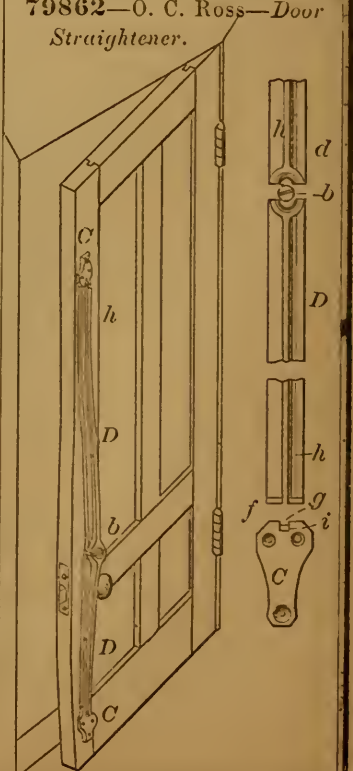


79862—O. C. Ross—*Door Straightener.*



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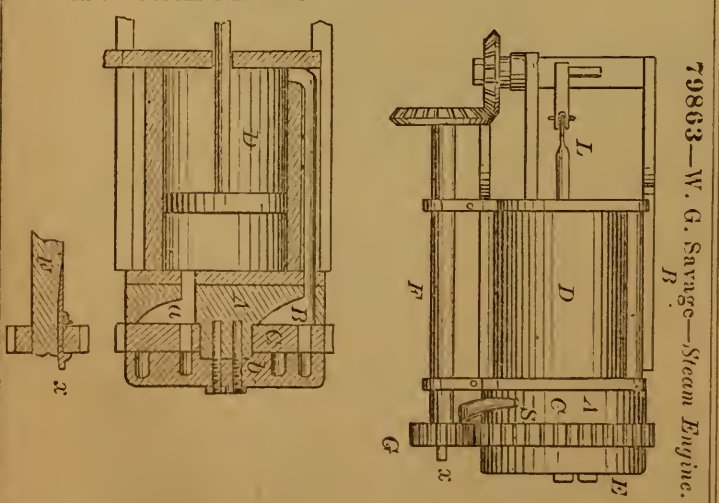

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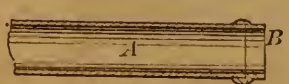
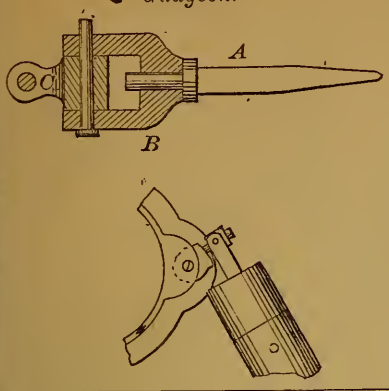
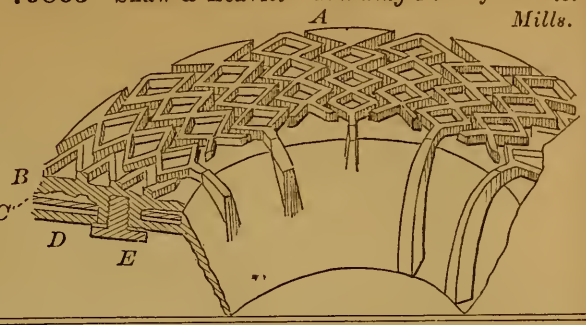


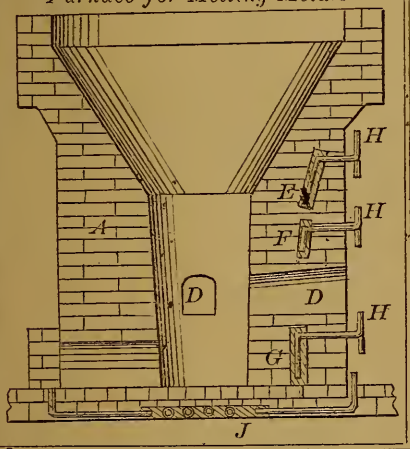
79864—C. Sayward—*Boom Gudgeon.*



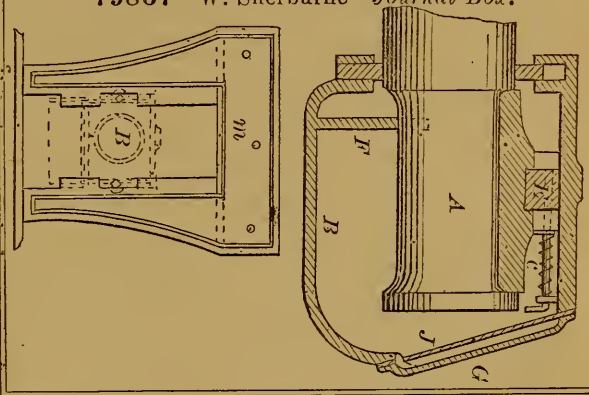
79865—Shaw & Leavitt—*Grinding Plate for Grist Mills.*



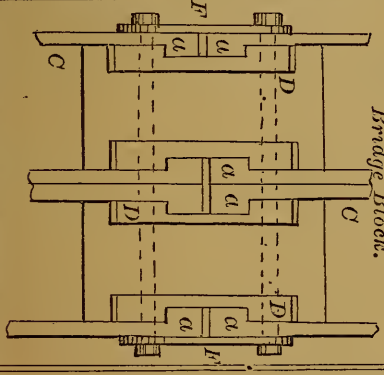
79866—Shea & Harvey—*Furnace for Melting Metals*



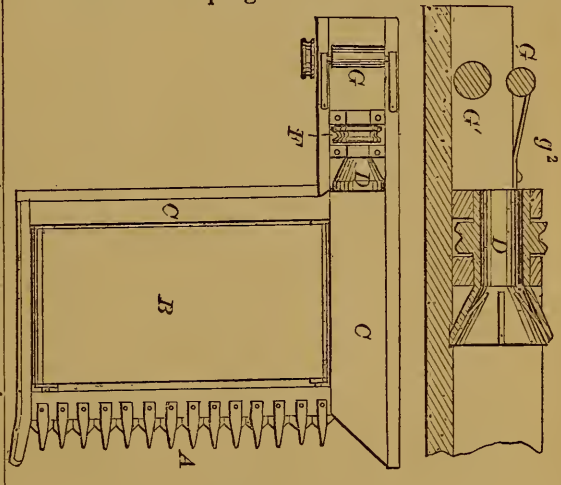
79867—W. Sherburne—*Journal Box.*



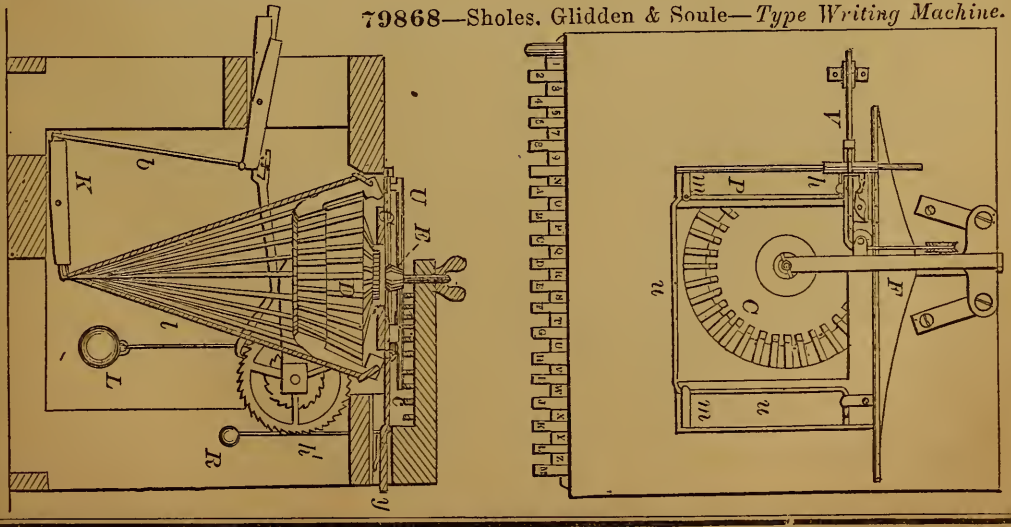
79869—J. R. Smith—*Bridge Block.*



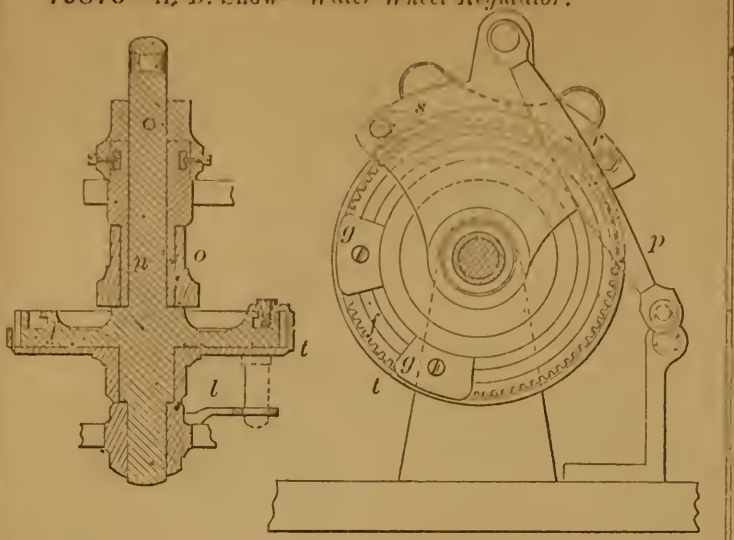
79871—W. Sprague—*Harvester.*



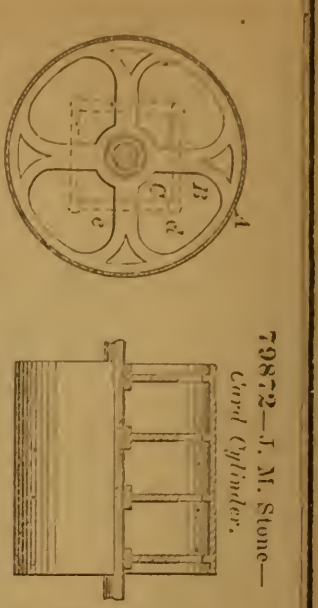
79868—Sholes, Glidden & Soule—*Type Writing Machine.*



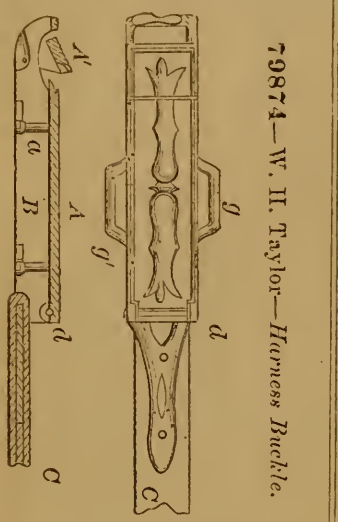
79870—H. D. Snow—*Water Wheel Regulator.*



79872—J. M. Stone—*Card Cylinder.*



79874—W. H. Taylor—*Harness Buckle.*



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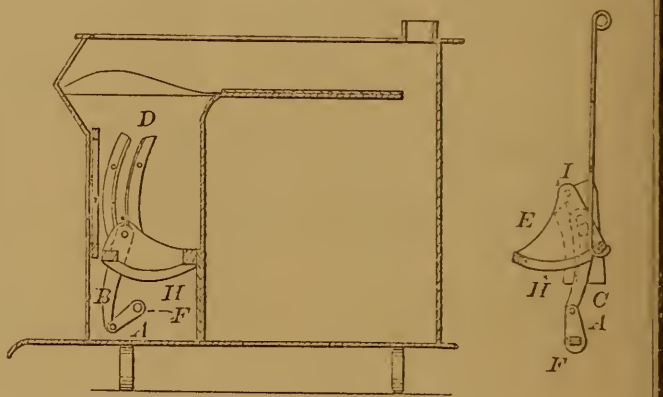
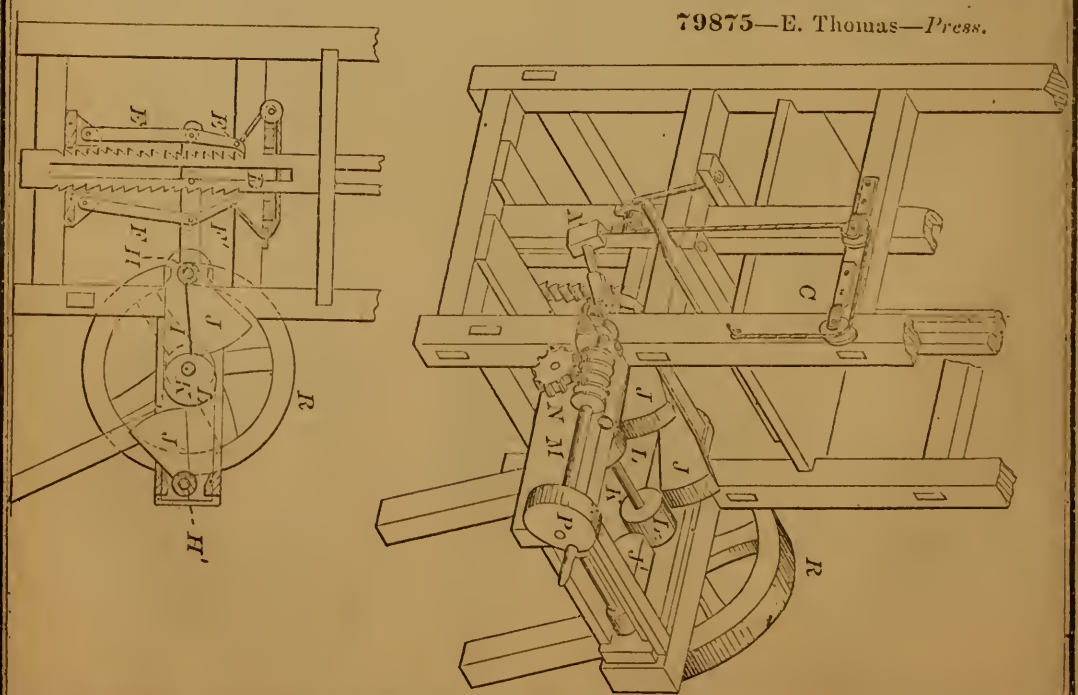
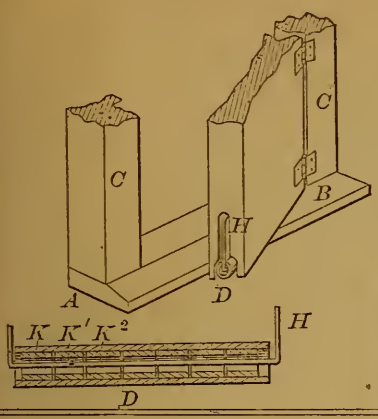


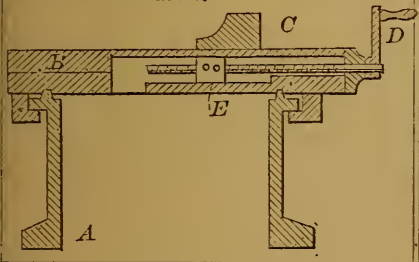
79875—E. Thomas—*Press.*



79876—J. H. Thomas—*Weather Strip.*



79877—W. Thompson—*Lathe Rest.*



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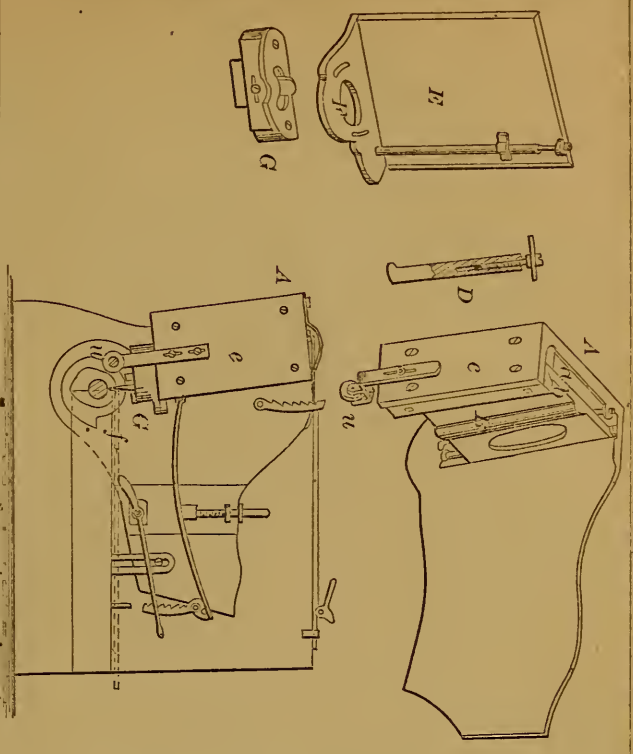
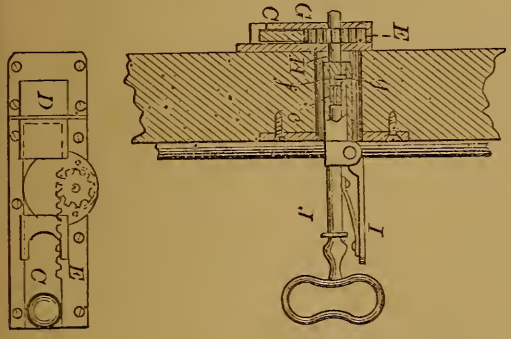
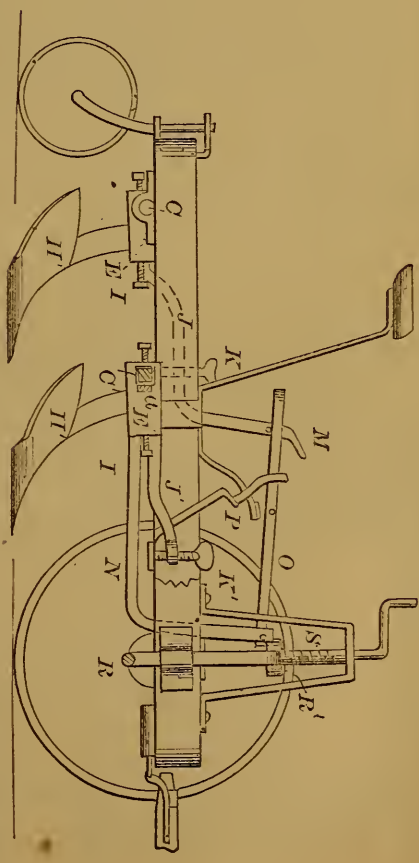


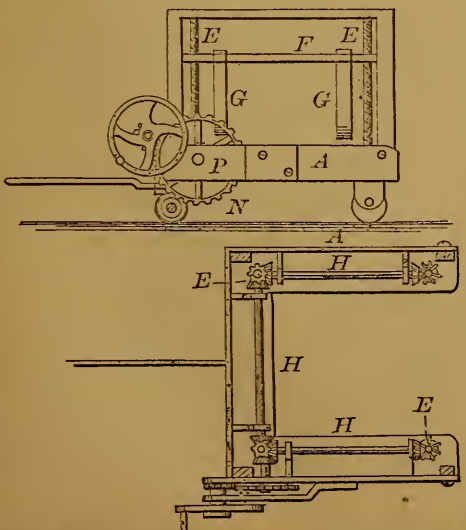
79879—G. Washburn—*Lock Bolt.*



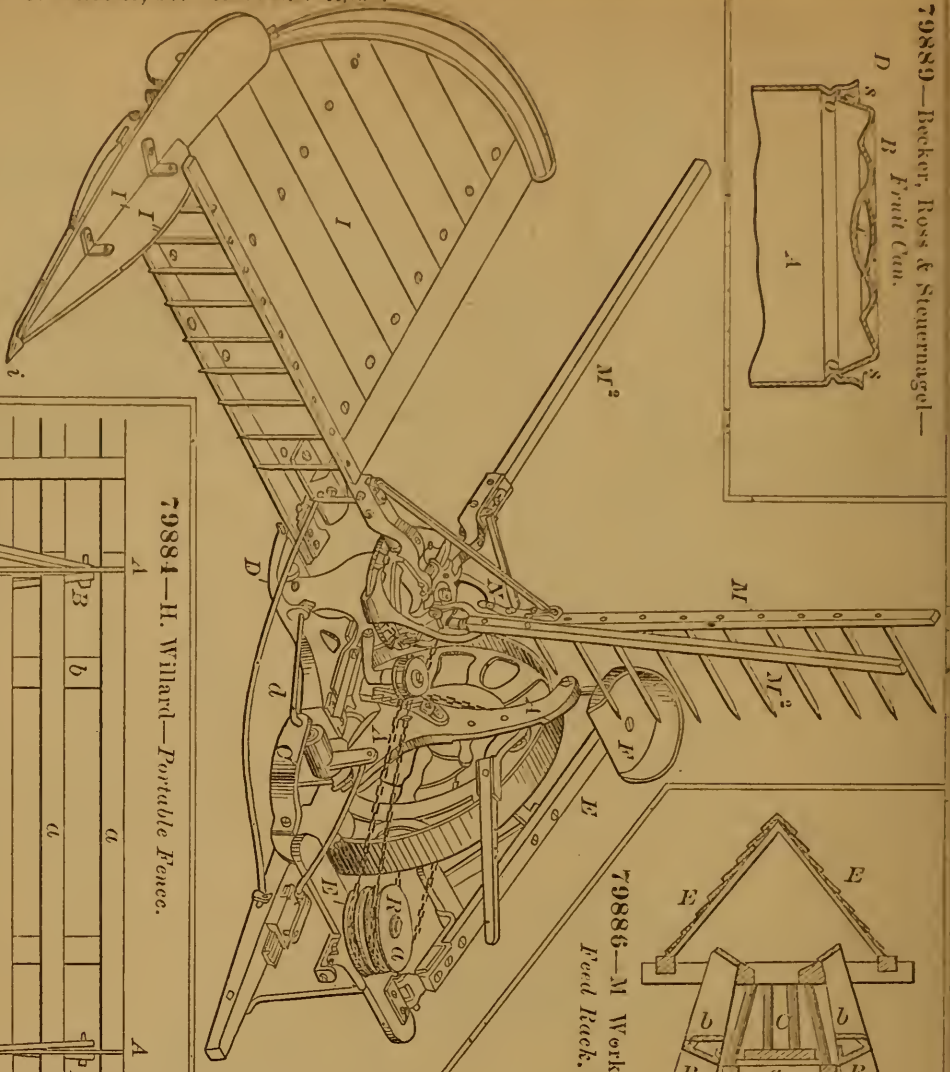
79880—J. T. Watkins—*Gang Plow.*



79883—C. Whittaker—*For Moving Heavy Bodies.*

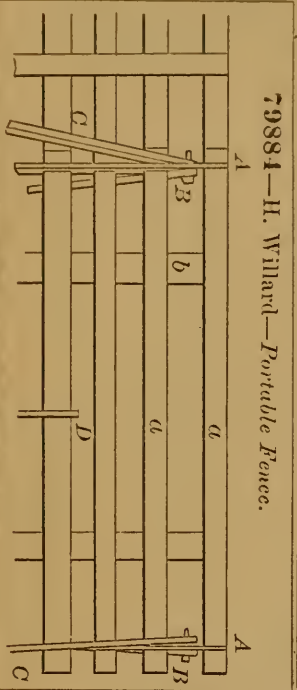


79881—C. Wheeler, Jr.—*Harvester Rake.*

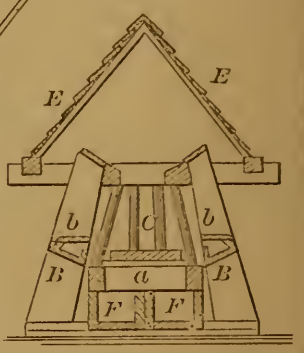


79889—Becker, Ross & Steuernagel—*Fruit Can.*

79884—H. Willard—*Portable Fence.*



79886—M Workman—*Feed Rack.*



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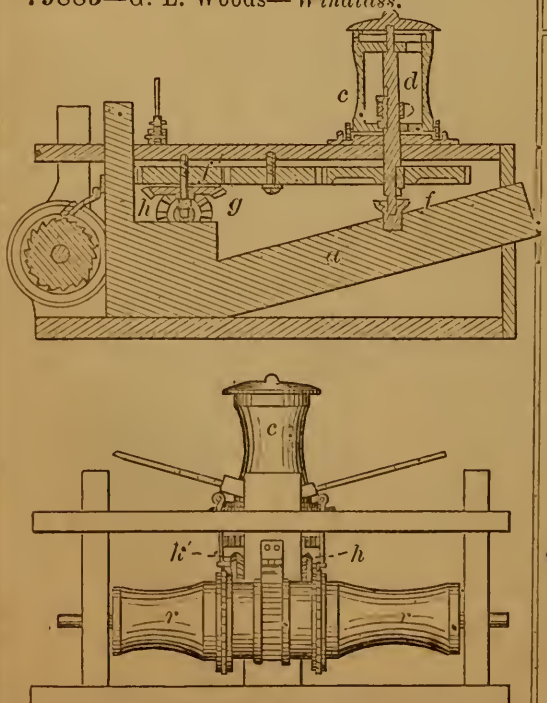
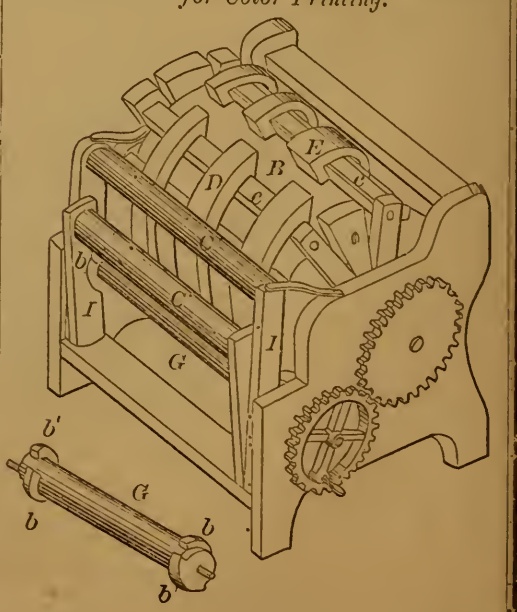
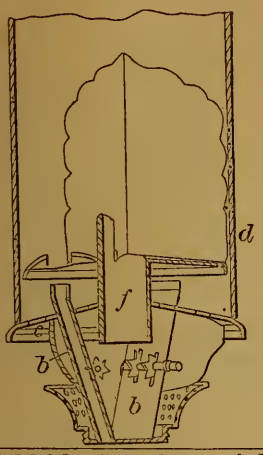


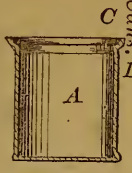
79888—T. L. Baylies—*Inking Apparatus for Color Printing.*



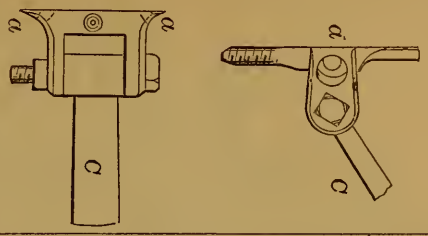
79887—F. Adt—*Lamp.*



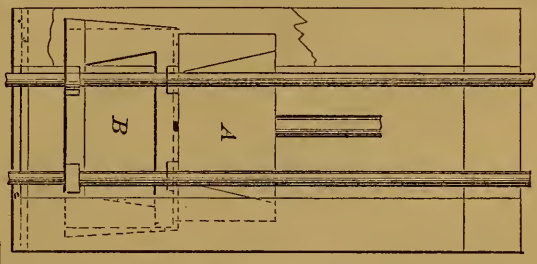
79890—Becker, Ross & Steuernagel—*Manufacture of Fruit Cans.*



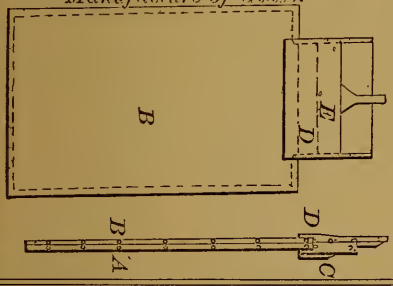
79891—H. M. Beecher—*Thill Coupling.*



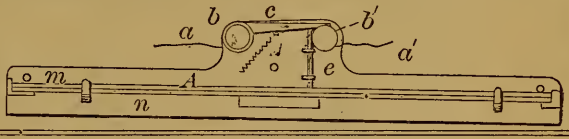
79893—Bemelmans & De Give—*Manufacture of Glass.*



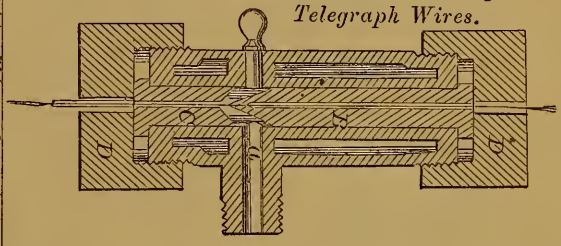
79892—Bemelmans & De Give—*Manufacture of Glass.*



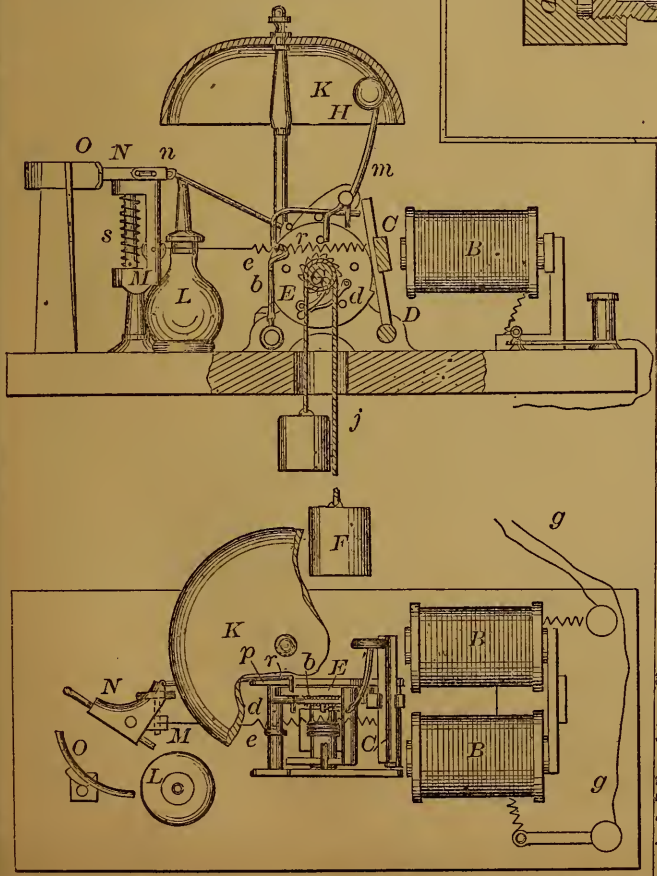
79894—Biggar & Blood—*Circuit Closer.*



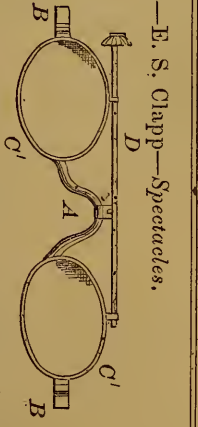
79896—Bishop & Marks—*For Insulating Telegraph Wires.*



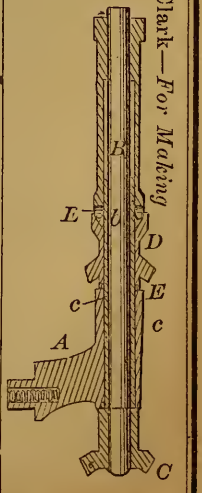
79895—Biggar, Blood & Griswold—*Electro-Magnetic Burglar Alarm.*



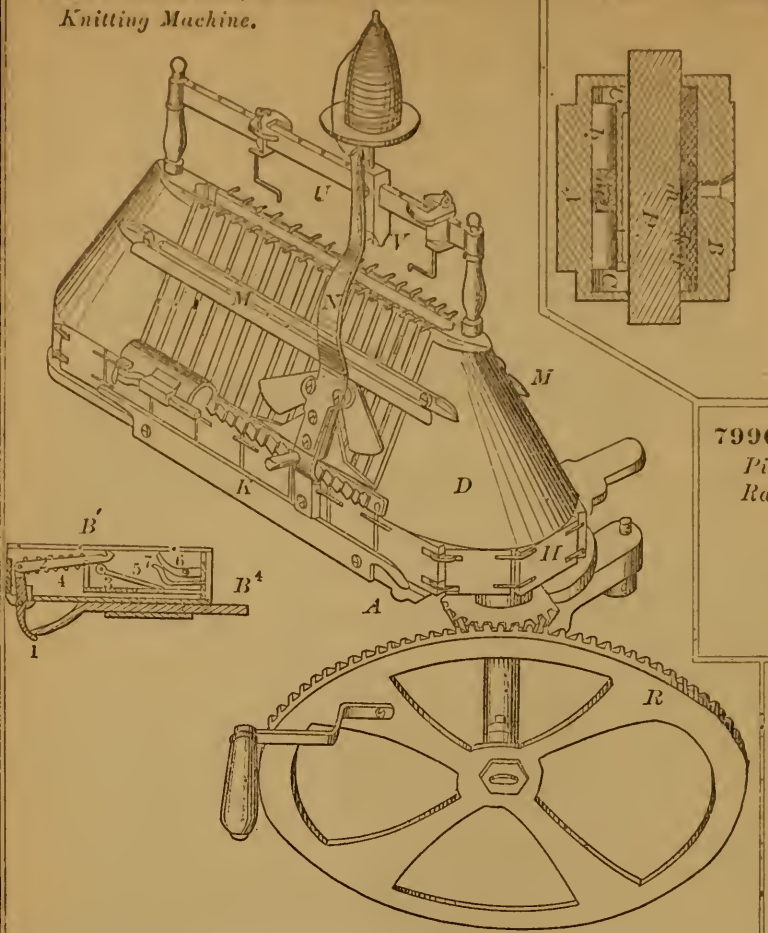
79898—E. S. Clapp—*Spectacles.*



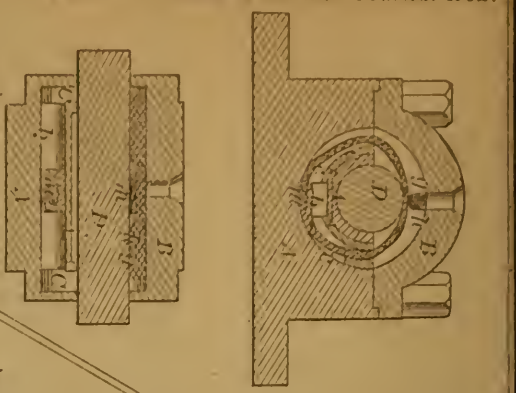
79899—N. F. Clark—*For Making Roving.*



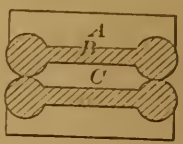
79897—Blakeslee, Beecher & Davis—*Knitting Machine.*



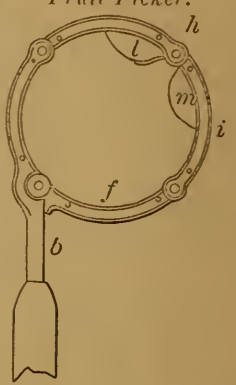
79900—Colburn & Gould—*Journal Box.*



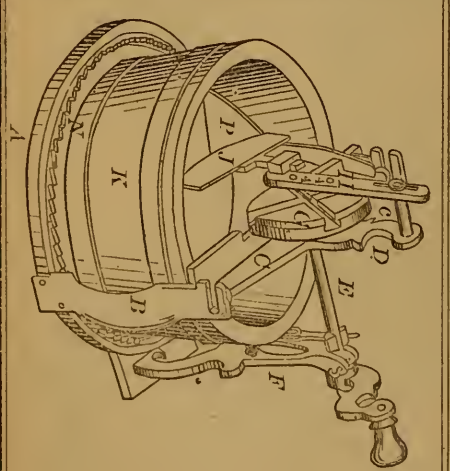
79904—Hayward & Lees—*Pile for Manufacturing Railroad Rails.*



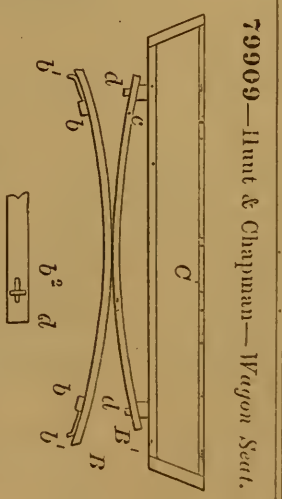
79906—L. Hotchkiss—*Fruit Picker.*



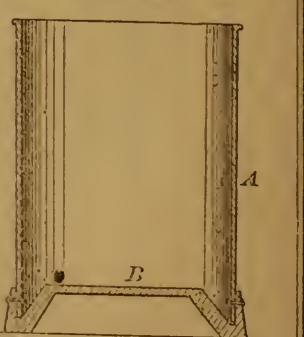
79902—C. A. Foster—*Meat Cutter.*



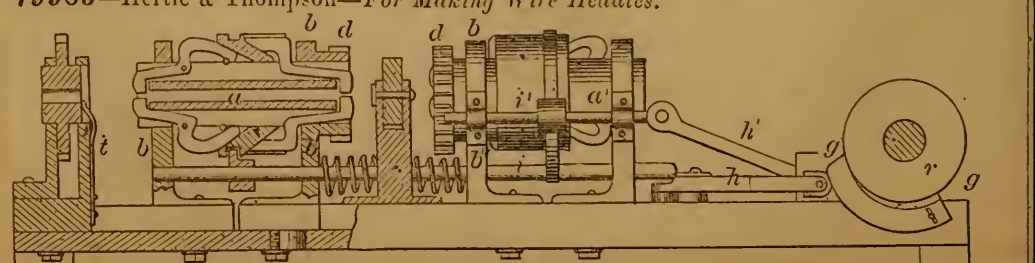
79909—Hunt & Chapman—*Wagon Seat.*



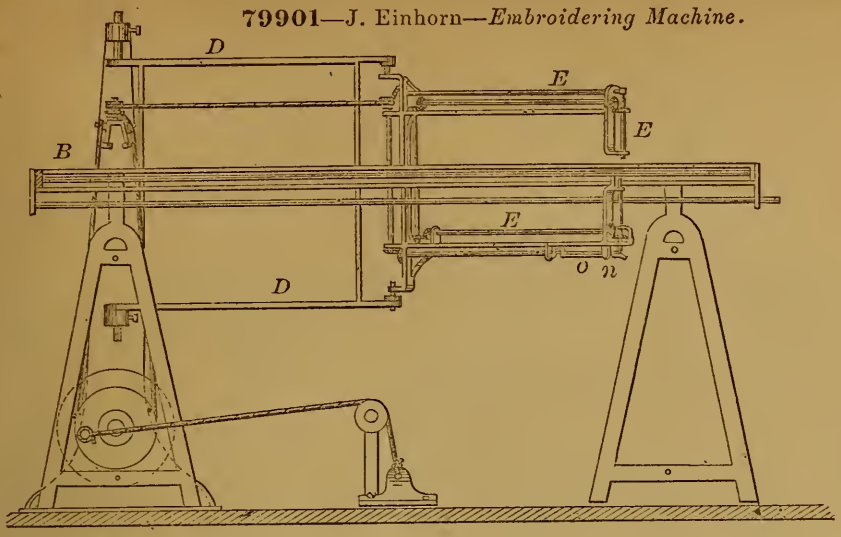
79907—G. A. Huggins—*Milk Can.*

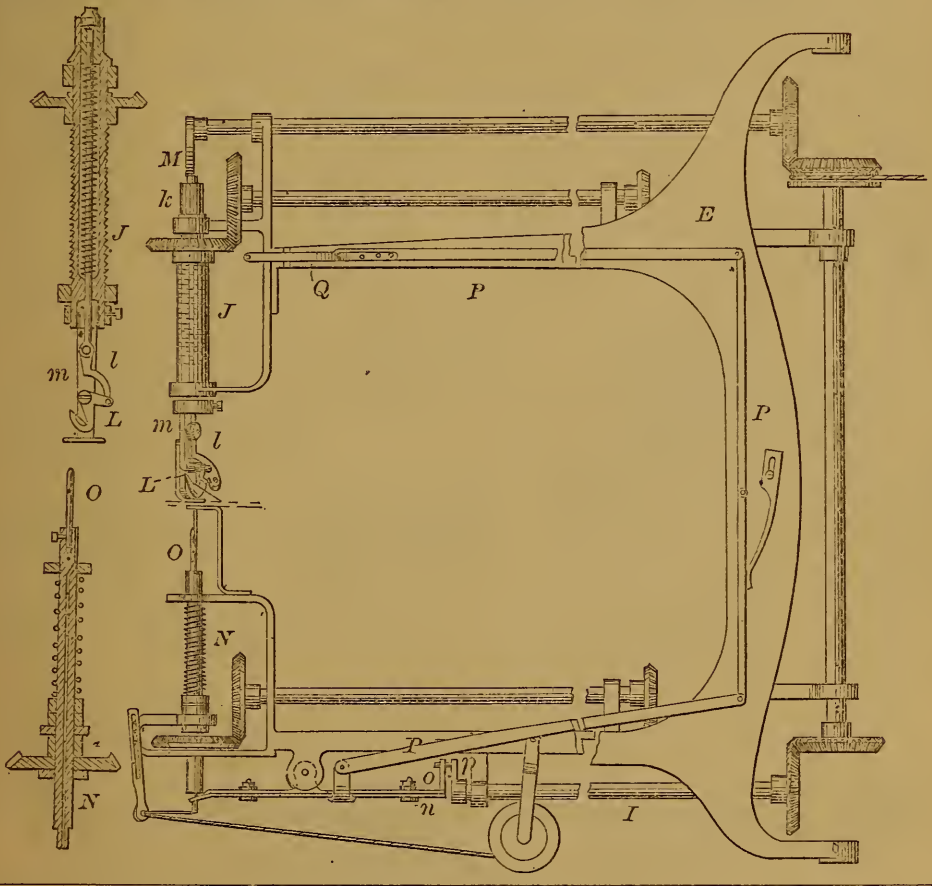


79905—Hertle & Thompson—*For Making Wire Heddles.*

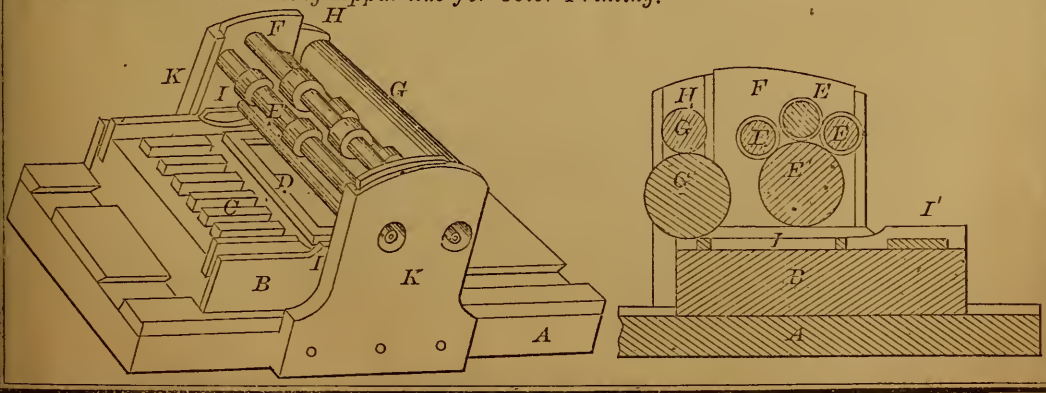


79901—J. Einhorn—*Embroidering Machine.*

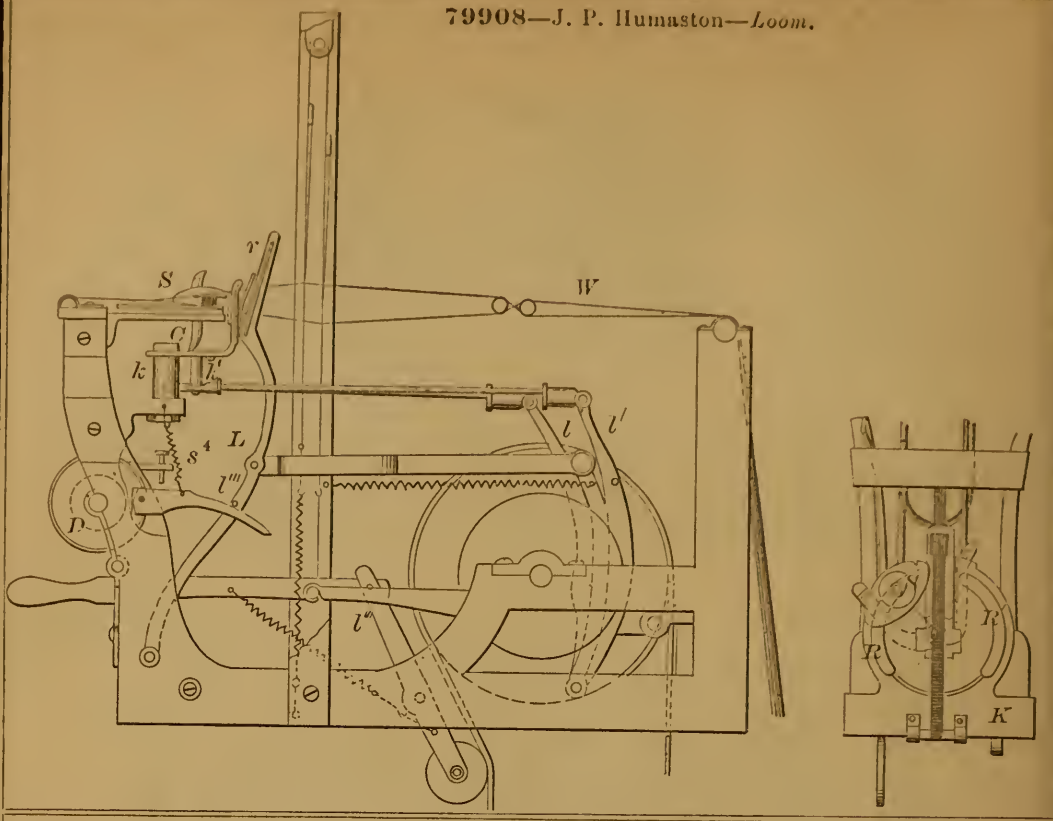




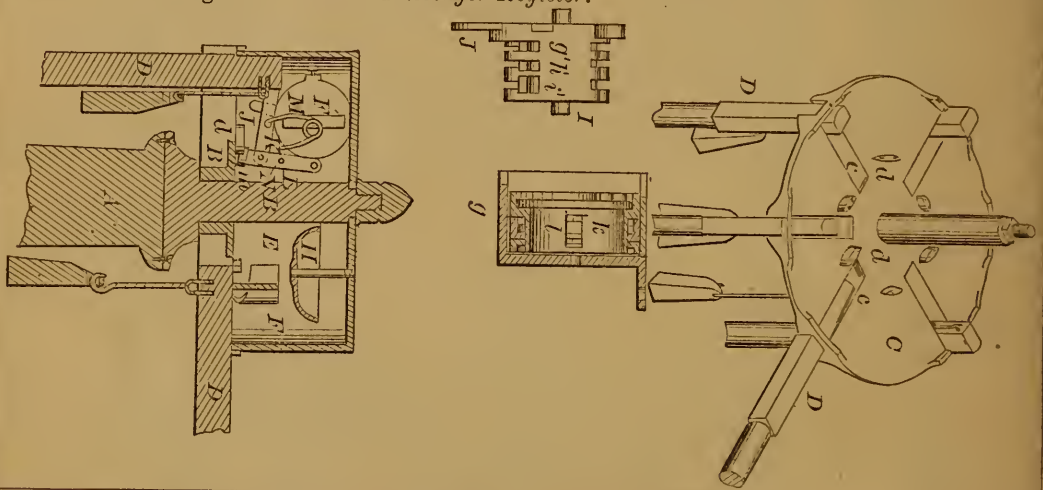
79910—J. Hunt—*Inking Apparatus for Color Printing.*



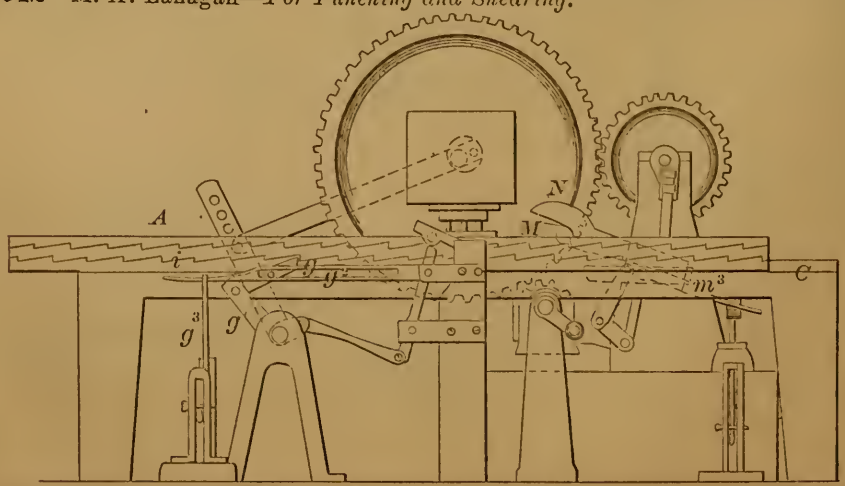
79908—J. P. Humaston—*Loom.*



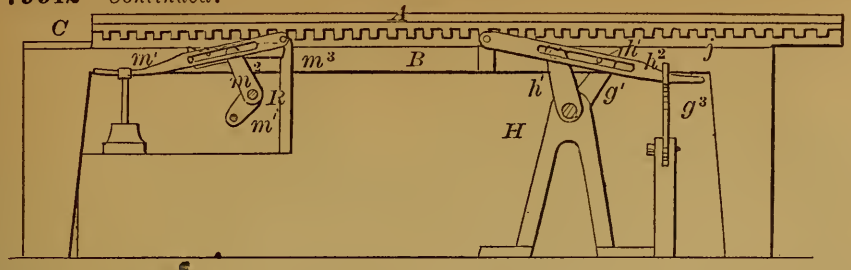
79911—Huntington & Fulton—*Passenger Register.*



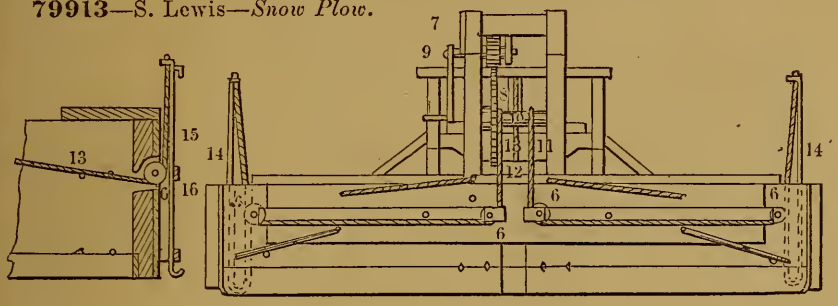
79912—M. A. Lanagan—*For Punching and Shearing.*

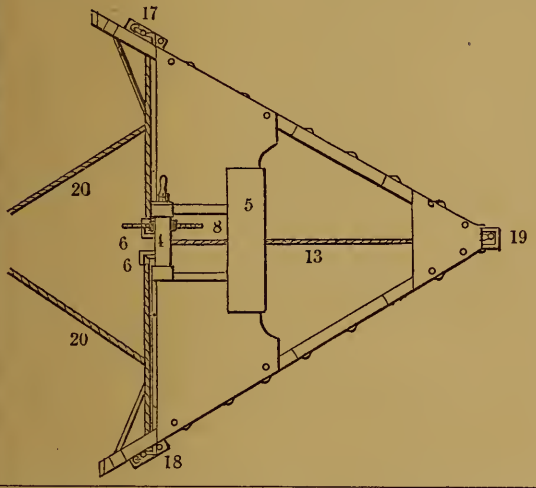


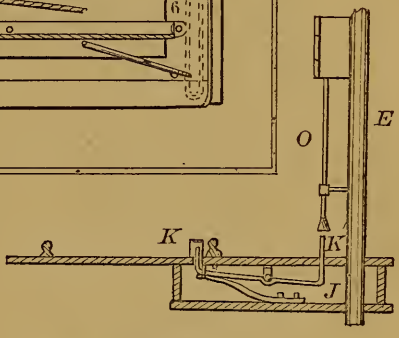
79912—*Continued.*



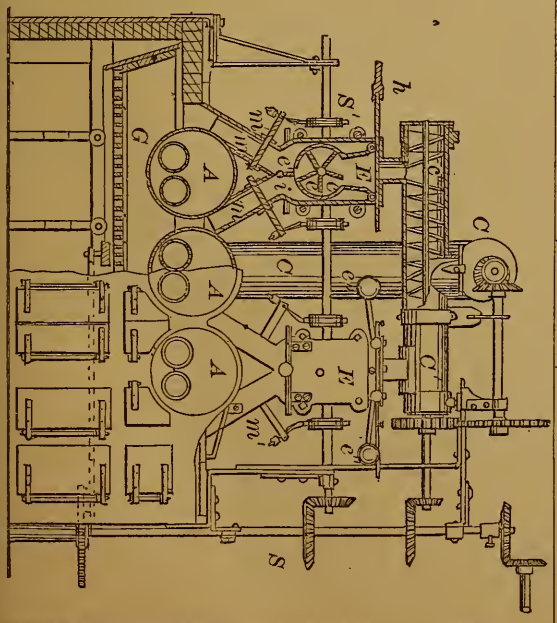
79913—S. Lewis—*Snow Plow.*

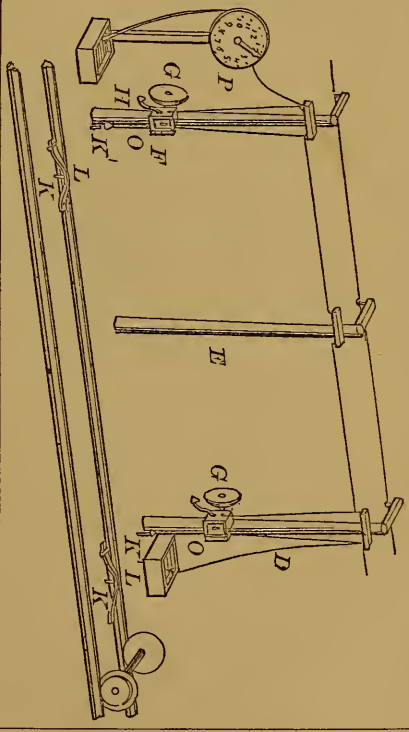






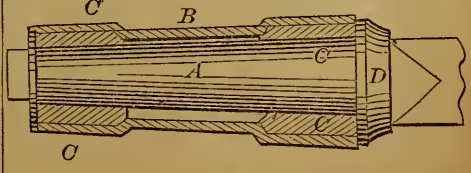
79914—J. G. McCormick—*For Feeding Fuel to Furnaces.*



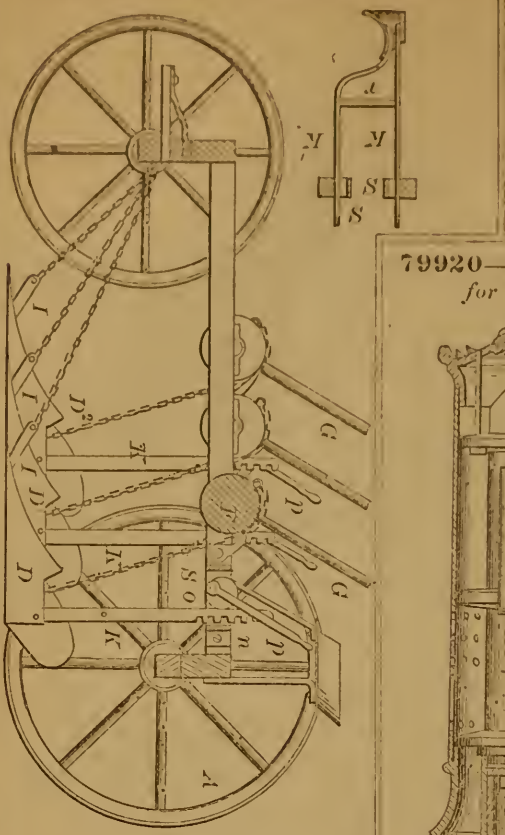


79915—G. Natcher—*Railroad Telegraphic Alarm.*

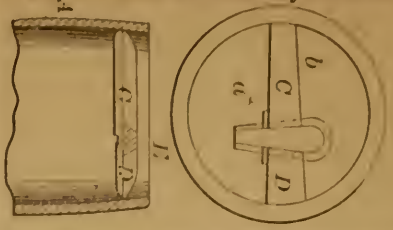
79916—Pearne & Coville—*Axle Box.*



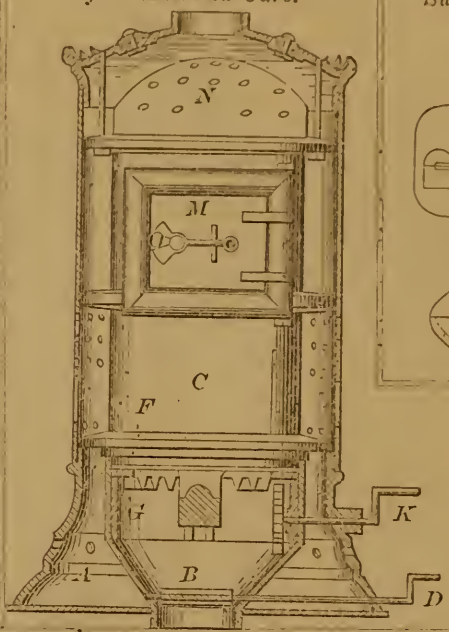
79917—Porter & Norton—*Gang Plow.*



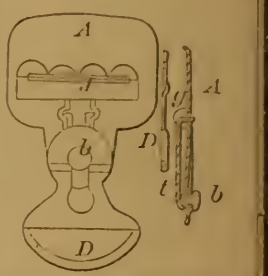
79919—Rink & Docherty—*Barrel Head.*



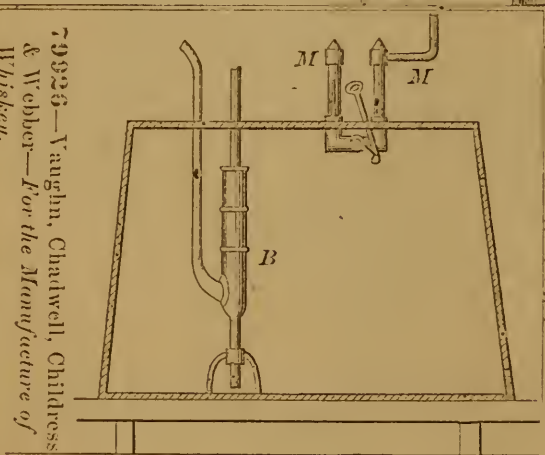
79920—Sax & Kear—*Stove for Railroad Cars.*



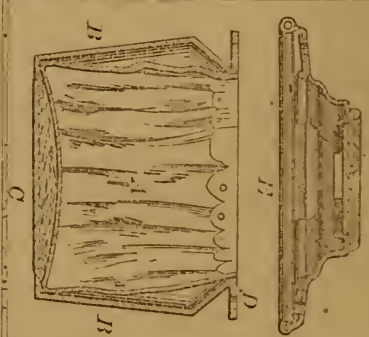
79918—A. Potosky—*Suspender Buckle.*

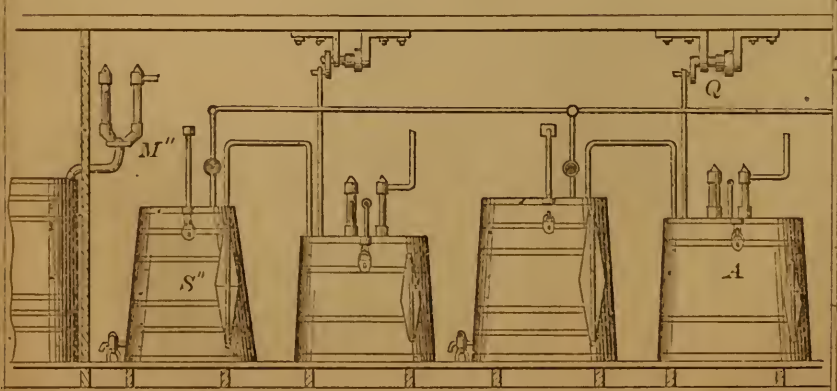


79926—Vaughn, Chadwell, Childress & Webber—*For the Manufacture of Whiskey.*

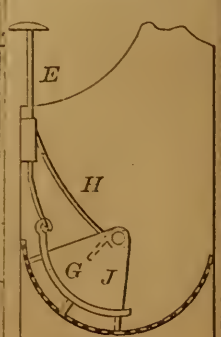


79921—B. Smith—*Coffin.*

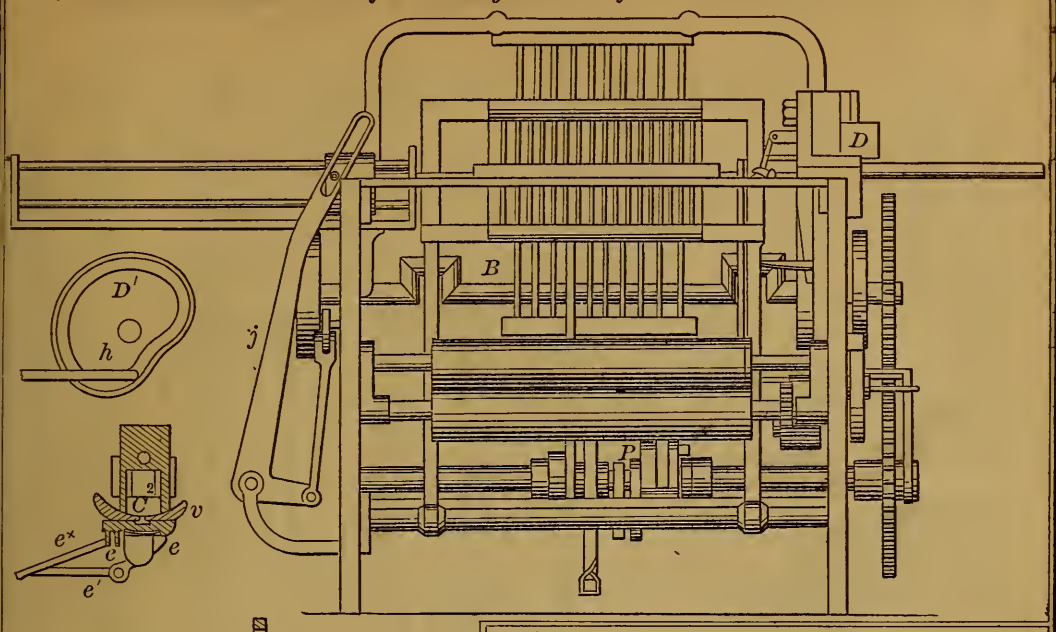


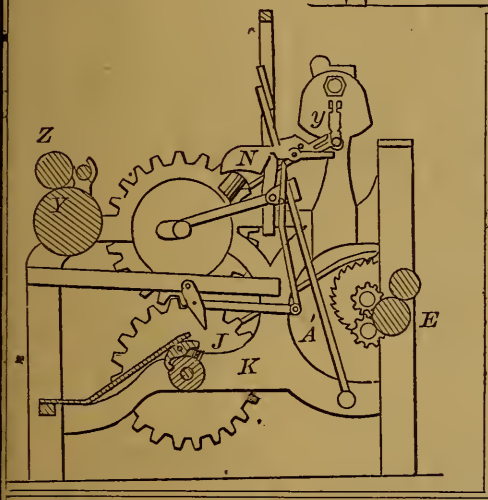


79922—Smith & Perkins—*Scoop.*

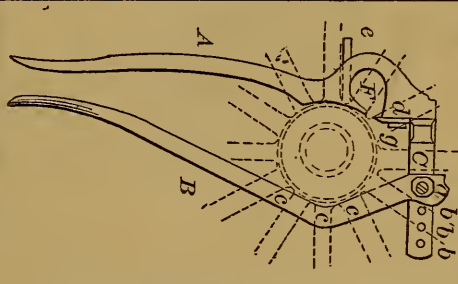


79923—J. C. Smith—*Loom for Weaving Palm Leaf.*

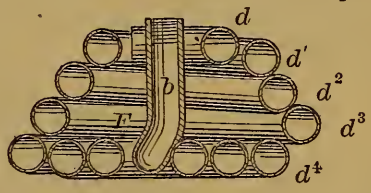




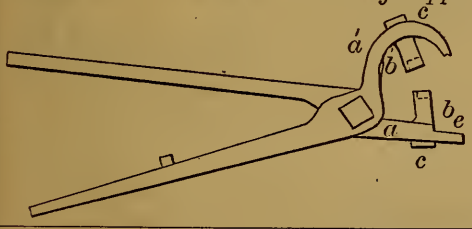
79925—Stone & Herbert—*Tool for Fitting Bands on Hubs.*



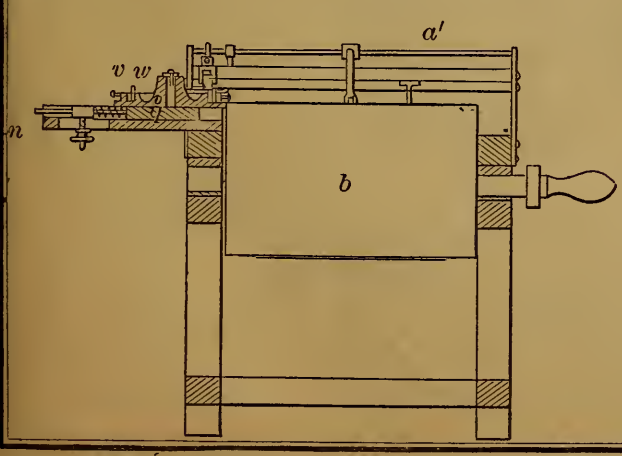
79924—D. M. Smyth—*Lamp.*

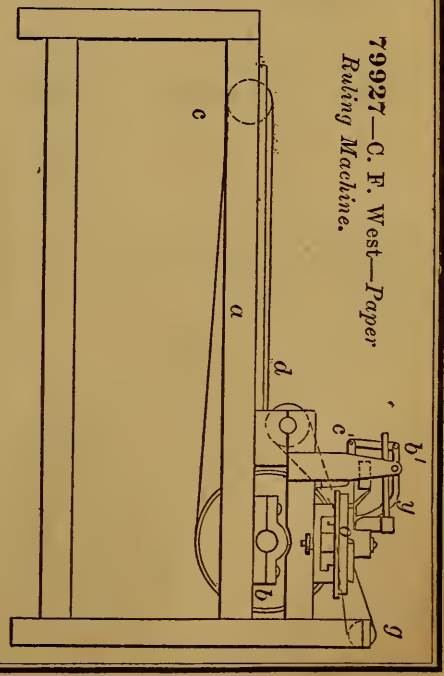


79928—J. B. Wilder—*Clinching Nippers.*

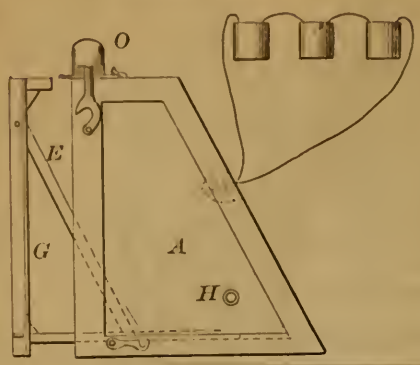


79927—C. F. West—*Paper Ruling Machine.*

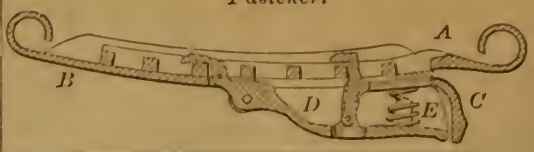




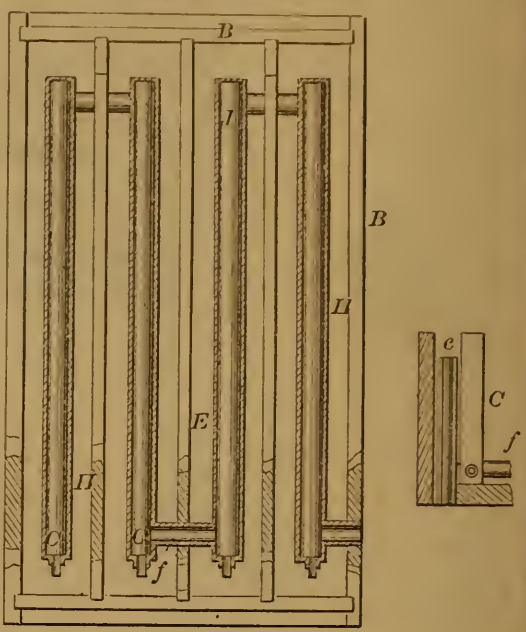
79929—Winterburn & Kent—*Electrical Bath.*



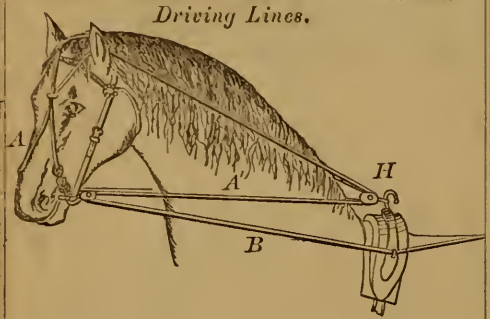
79930—A. B. & S. A. Woodard—*Hames Fastener.*



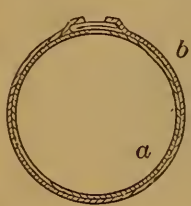
79931—J. Agate—*Beer Cooler.*



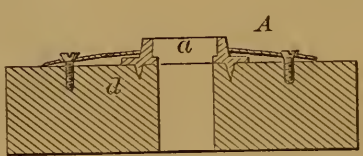
79932—C. M. Alexander—*Check and Driving Lines.*



79933—G. M. Allerton—*Inflated Rubber Goods.*

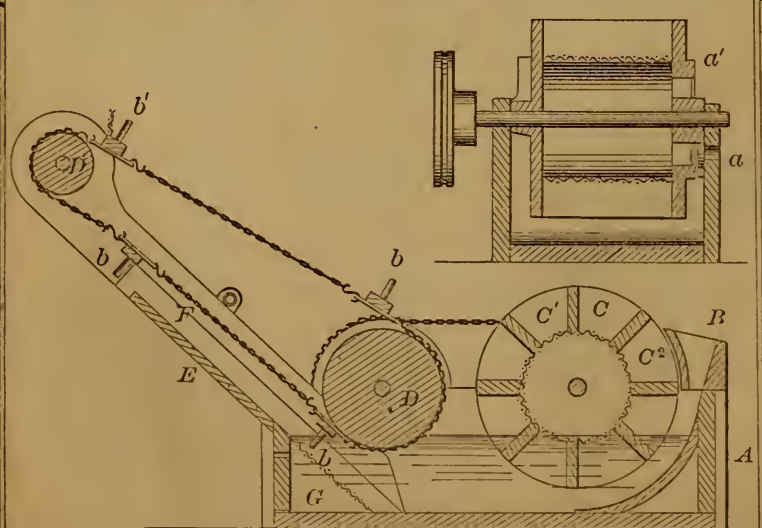


79936—W. H. Andrews—*Rose for Door Knobs.*

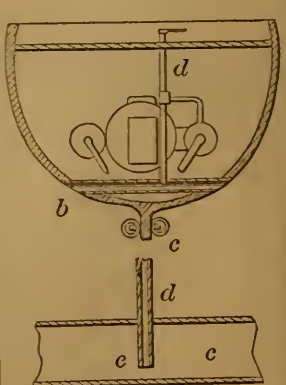


79934—G. M. Allerton—*Life Preserver.*

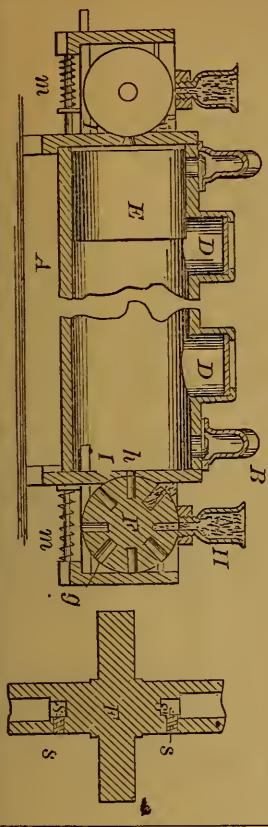
79935—J. E. Andrews—*For Washing Paper Stock.*



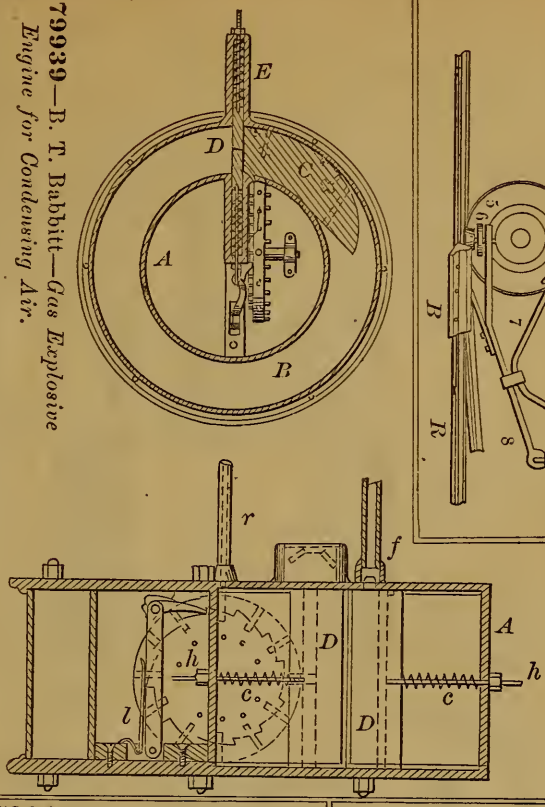
79937—B. T. Babbitt—*Propelling Vessels.*



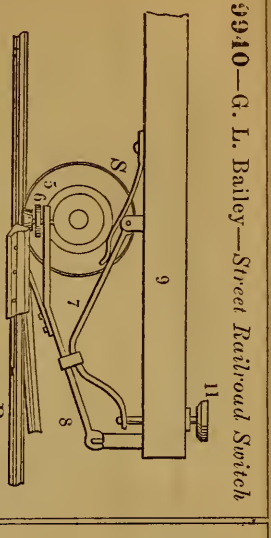
79938—B. T. Babbitt—*Gas Explosive Engine for Condensing Air.*



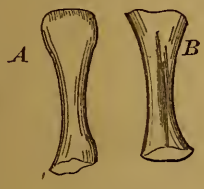
79939—B. T. Babbitt—*Gas Explosive Engine for Condensing Air.*



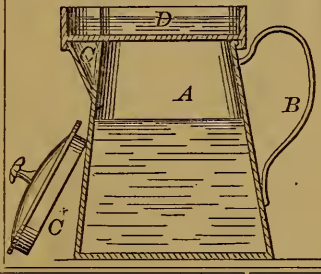
79940—G. L. Bailey—*Street Railroad Switch*



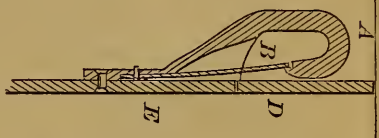
79941—A. Bertram—*Boot and Shoe Shank.*



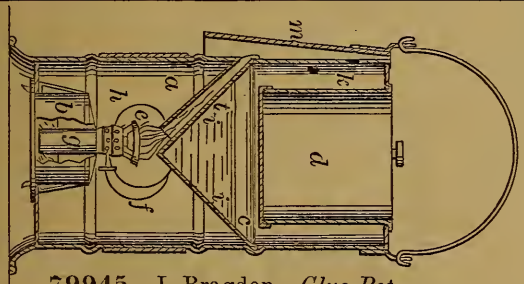
79943—B. Bordman—*Coffee Pot.*



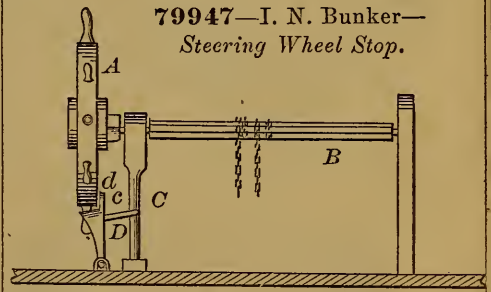
79944—W. H. Bouser—*Snap Hook.*



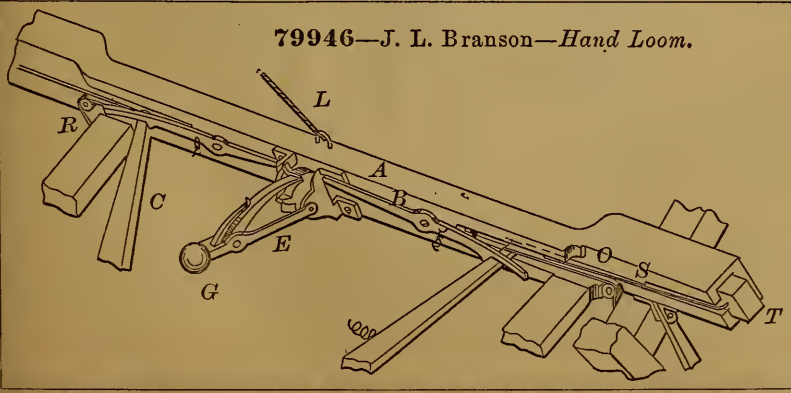
79945—J. Bragdon—*Glue Pot.*



79947—I. N. Bunker—*Steering Wheel Stop.*

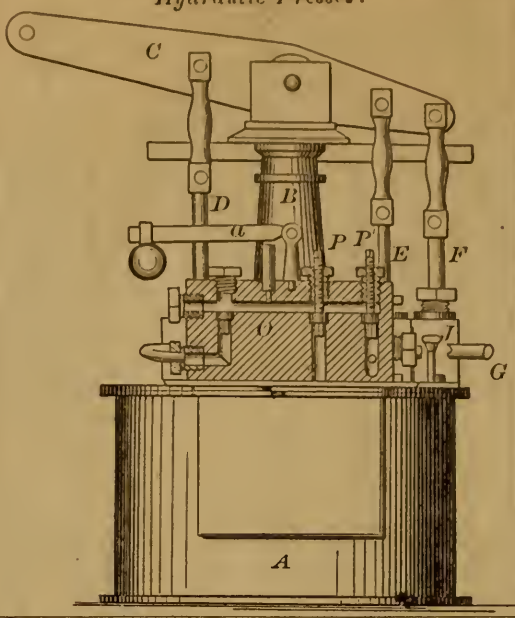


79946—J. L. Branson—*Hand Loom.*

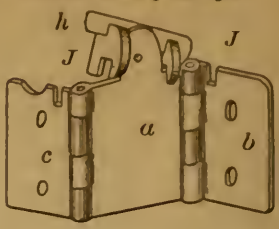


79948—E. L. Bushnell—*Harvester Cutter Sharpener.*

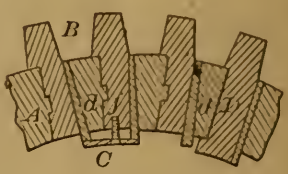
79949—W. P. Callahan—*Force Pump for Hydraulic Presses.*



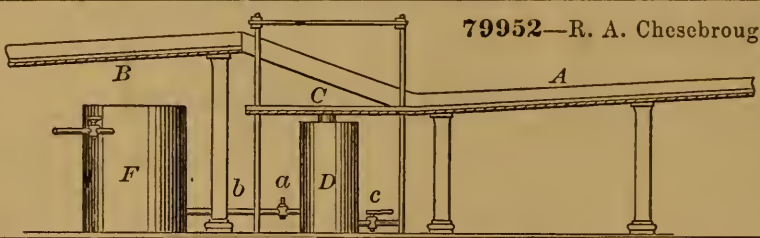
79950—J. H. Carkeet—*Double Acting Hinge.*



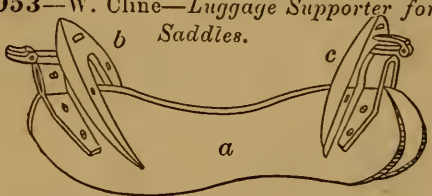
79957—J. Cowell—*Wheel.*



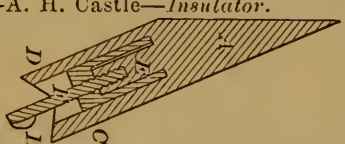
79952—R. A. Chesebrough—*Railway.*



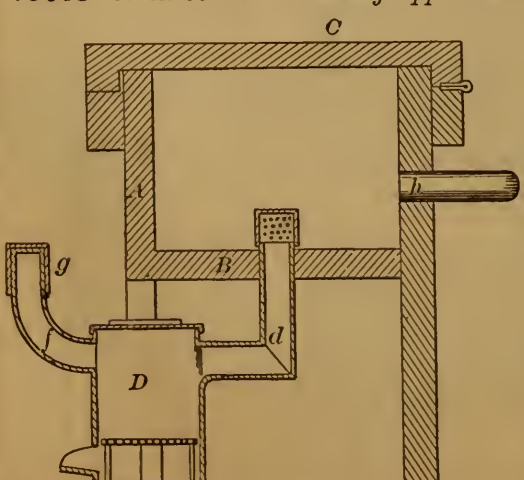
79953—W. Cline—*Luggage Supporter for Saddles.*



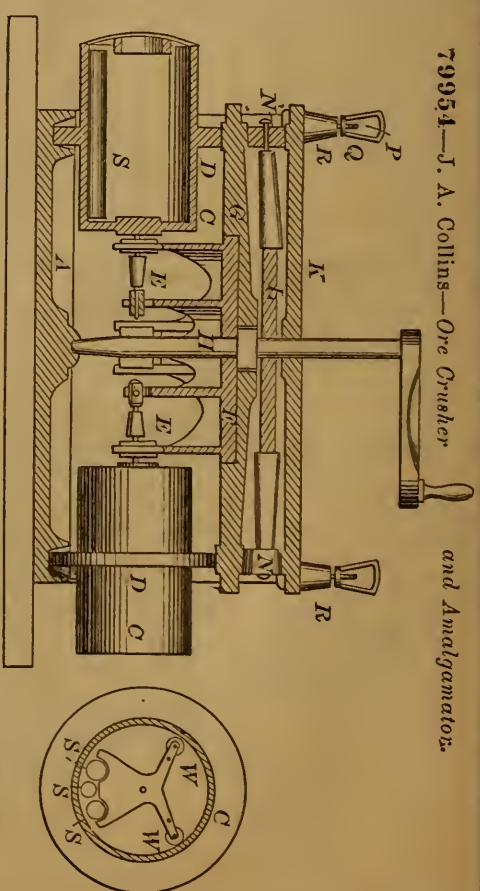
79951—A. H. Castle—*Insulator.*



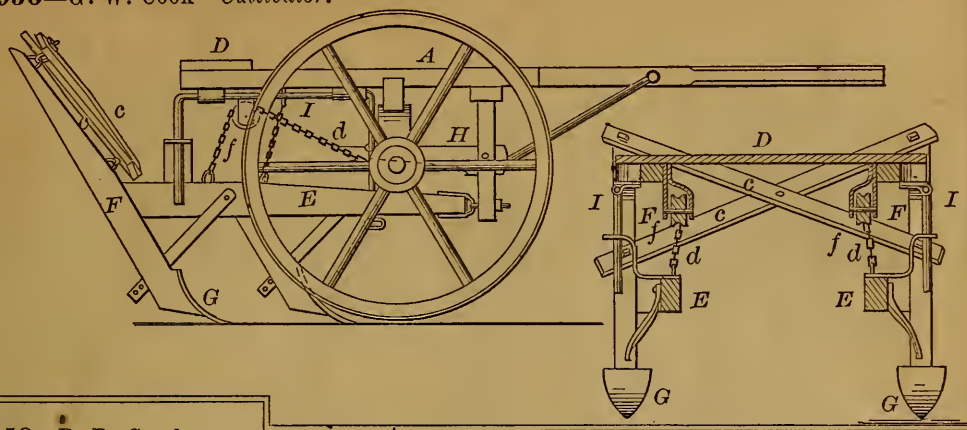
79955—E. A. Combs—*Bleaching Apparatus.*



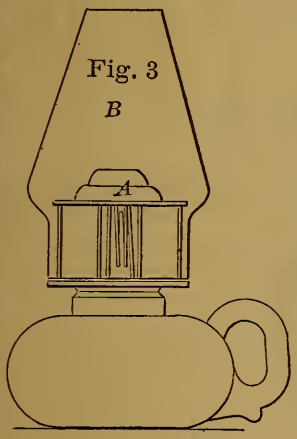
79954—J. A. Collins—*Ore Crusher and Amalgamator.*



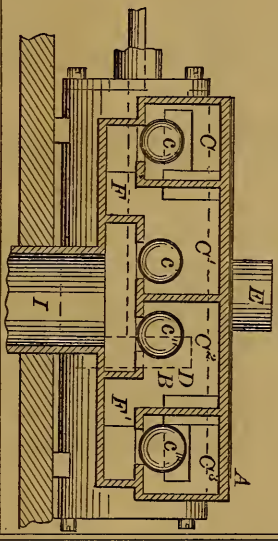
79956—G. W. Cook—*Cultivator.*



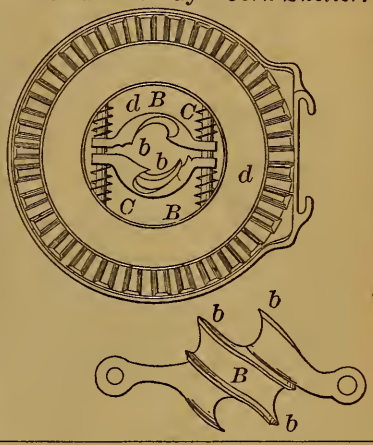
79958—R. R. Crosby
Lamp Chimney.



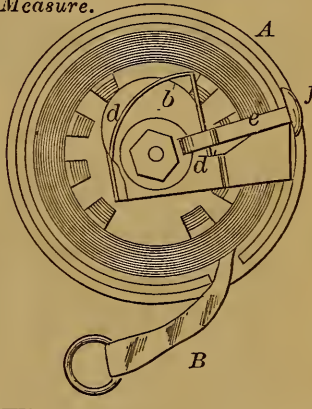
79959—R. W. Crouse—*Pump.*



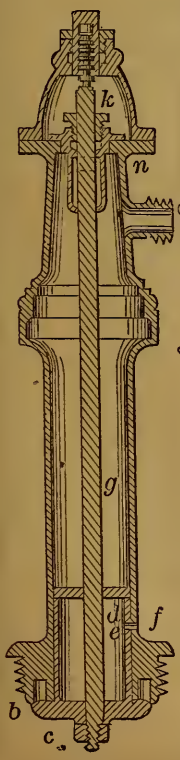
79961—M. Day—*Corn Sheller.*



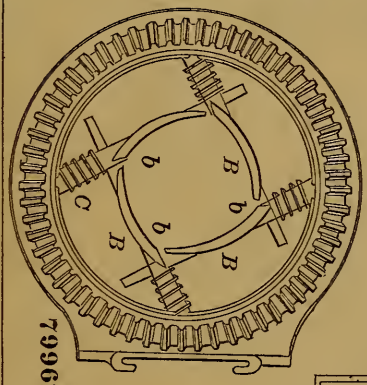
79965—A. J. Fellows—*Tape Measure.*



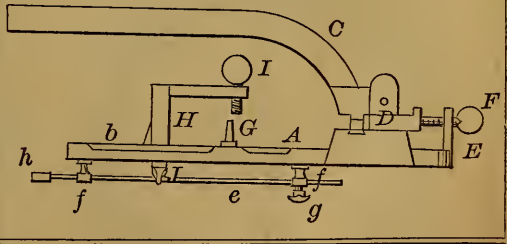
79960—J. P. Cummings—*Fire Plug.*



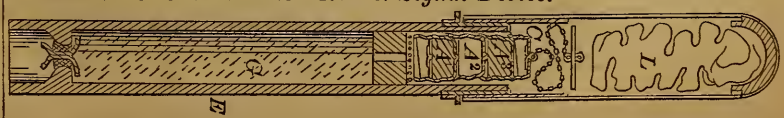
79962—M. Day—*Corn Sheller.*



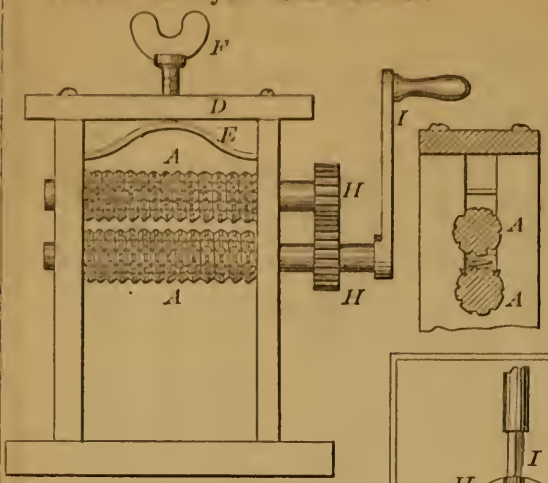
79964—I. Estell—*Saw Set.*



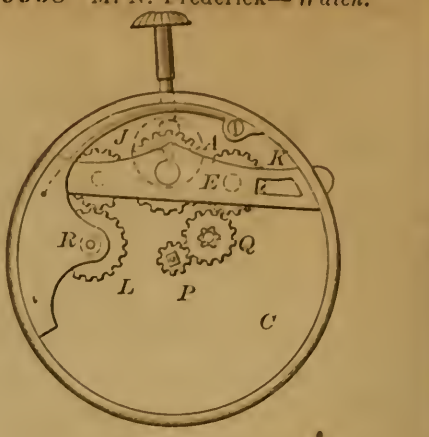
79963—J. J. Detwiller—*Rocket Signal Device.*

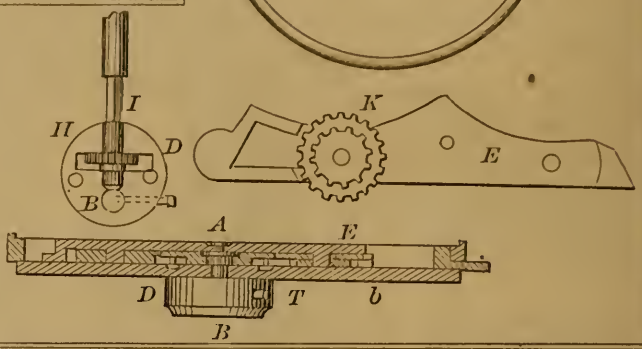


79966—R. Flynn—*Steak Masher.*

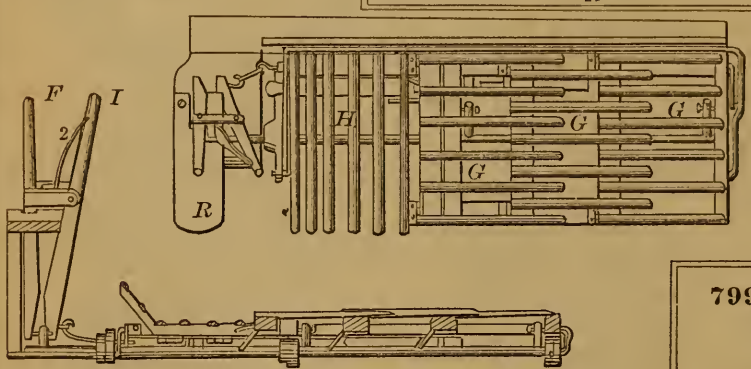


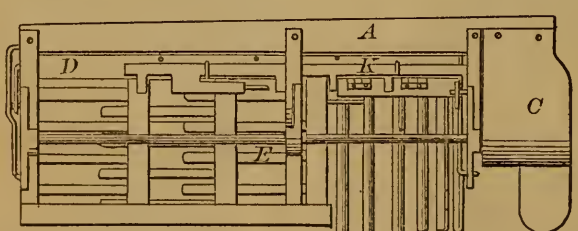
79968—M. N. Frederick—*Watch.*



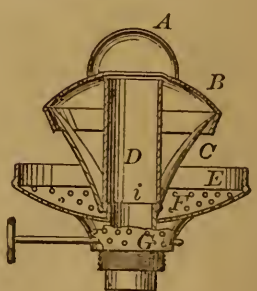


79967—J. S. Fowler—
Discharging Apparatus for Harvesters.

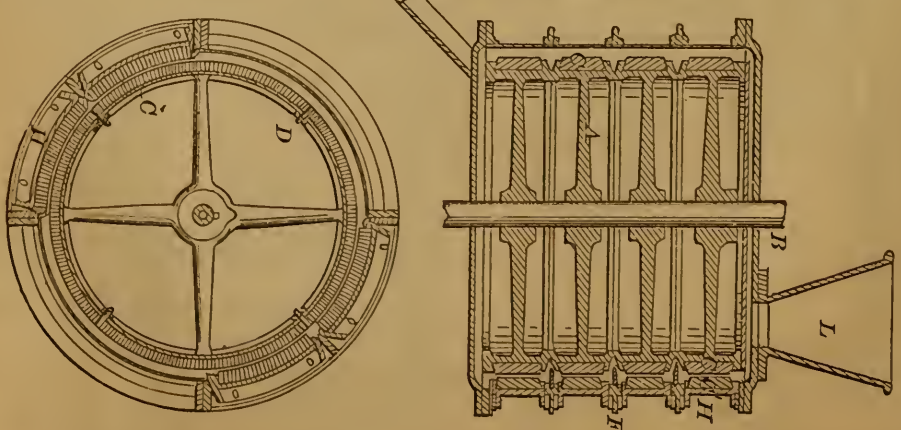




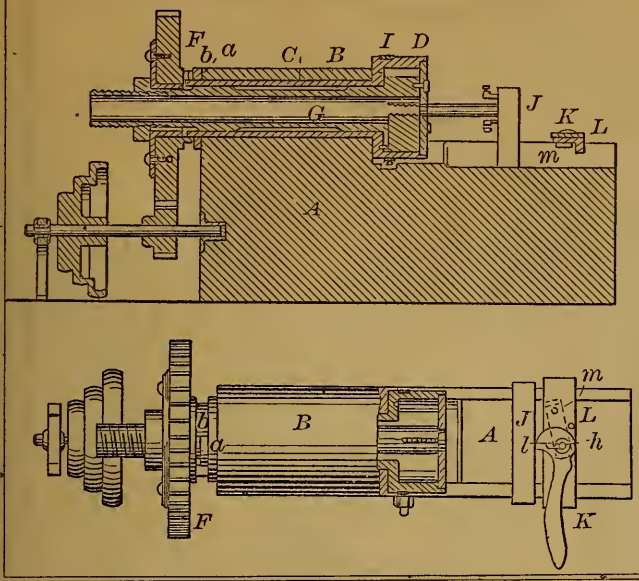
79969—F. H. Fuller—
Lamp Burner.



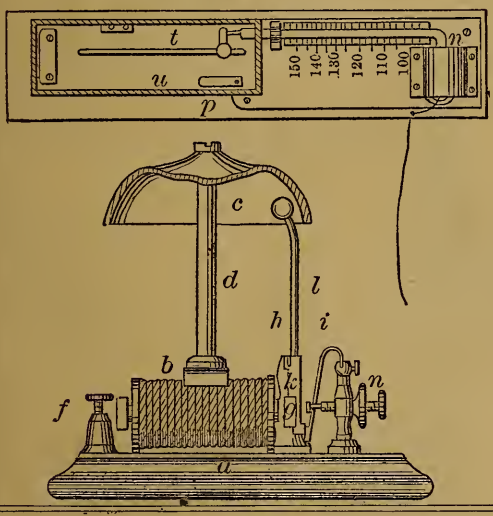
79970—W. W. Gibson—*For Decorticating and Cleaning Cereals.*



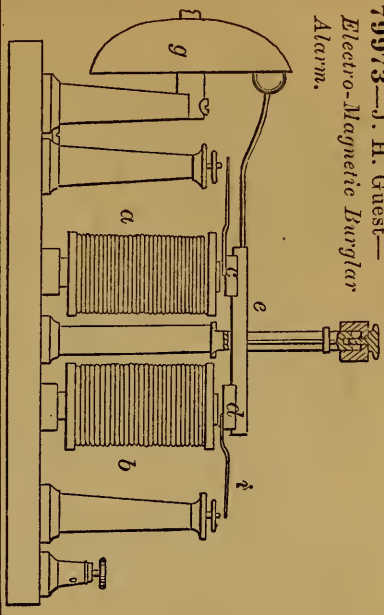
79971—E. Gould—*Screw Threading Machine.*

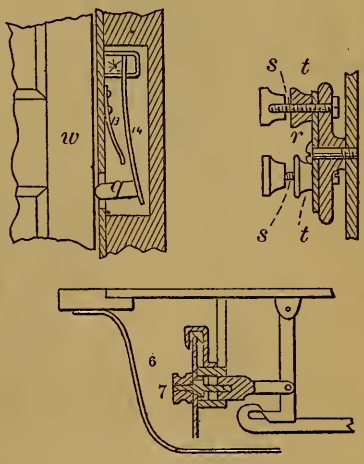


79972—J. H. Guest—*Electro-Magnetic Temperature Alarm.*

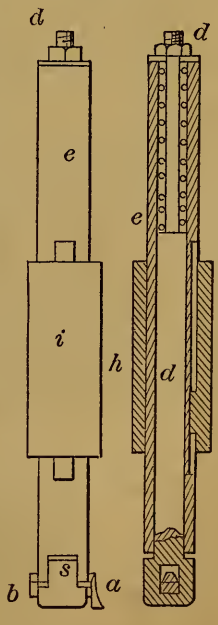


79973—J. H. Guest—*Electro-Magnetic Burglar Alarm.*

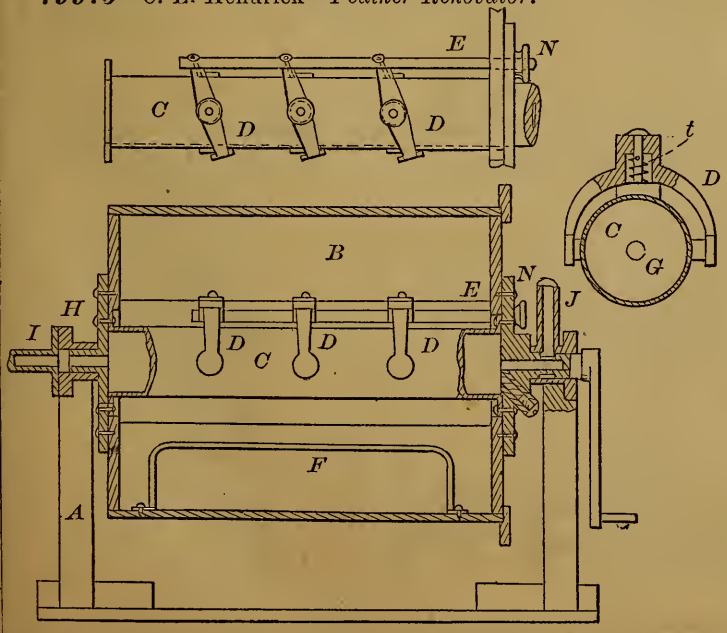




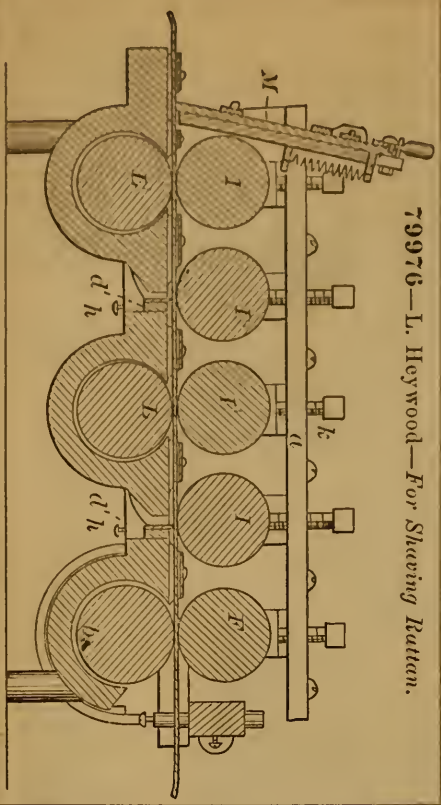
79974—J. W. Haskell—*Tool Holder.*



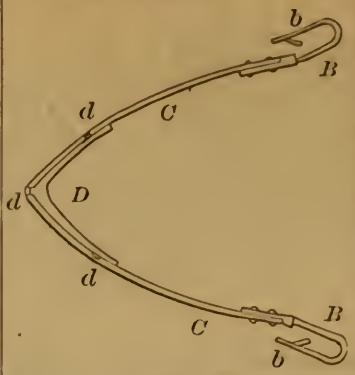
79975—C. E. Hendrick—*Feather Renovator.*



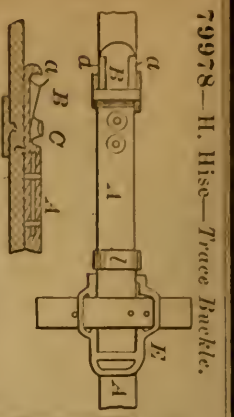
79976—L. Heywood—*For Shaving Batten.*



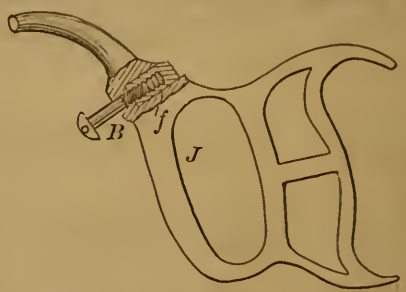
79977—A. L. Hill—*Breast Strap.*



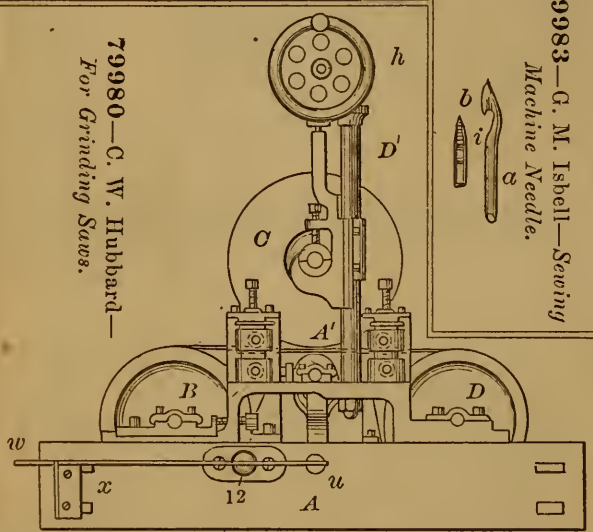
79978—H. Hise—*Trace Buckle.*



79979—C. W. Hubbard—*Saw Handle.*

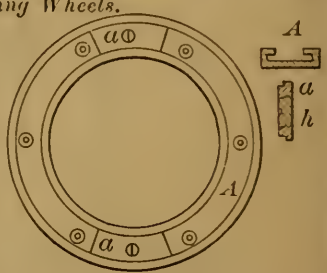


79980—C. W. Hubbard—*For Grinding Saws.*

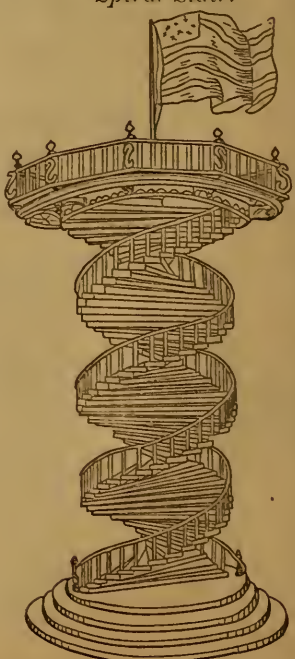


79983—G. M. Isbell—*Sewing Machine Needle.*

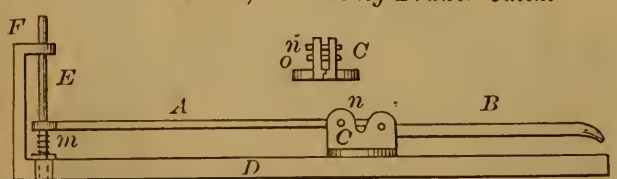
79984—H. K. Jones—*For Balancing Polishing Wheels.*



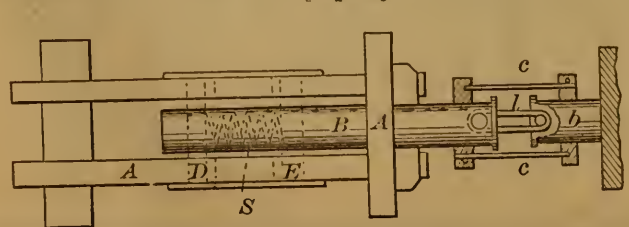
79985—W. J. Keim—*Spiral Stair.*



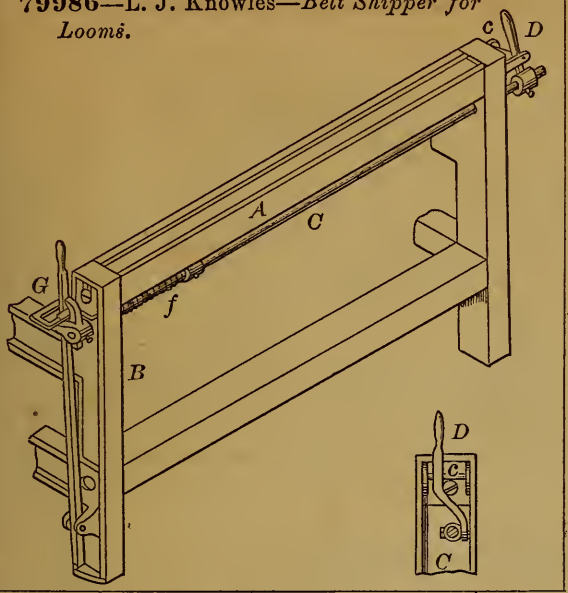
79981—S. Hubbell, Jr.—*Money Drawer Catch.*



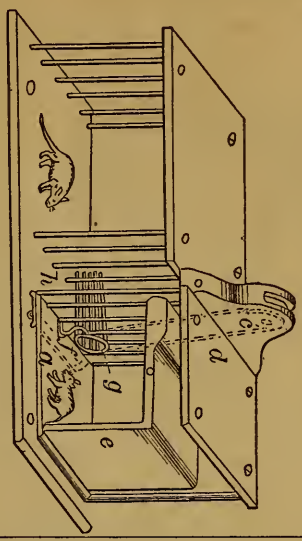
79982—F. A. Hull—*Car Coupling.*



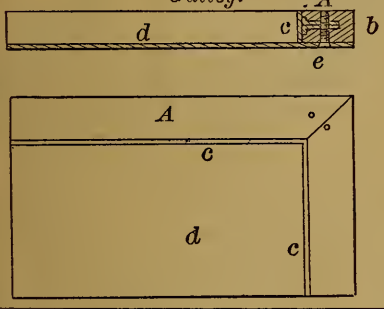
79986—L. J. Knowles—*Belt Shipper for Looms.*



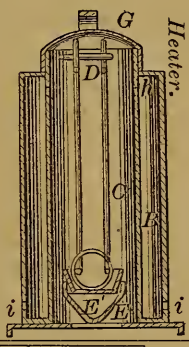
79987—A. T. Latta—*Animal Trap.*



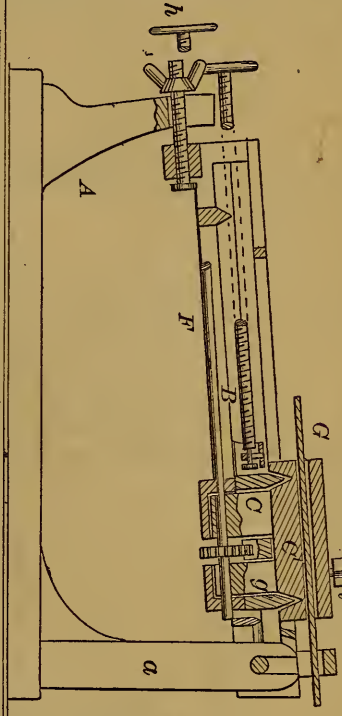
79988—C. H. Lawrence—*Printers' Galley.*



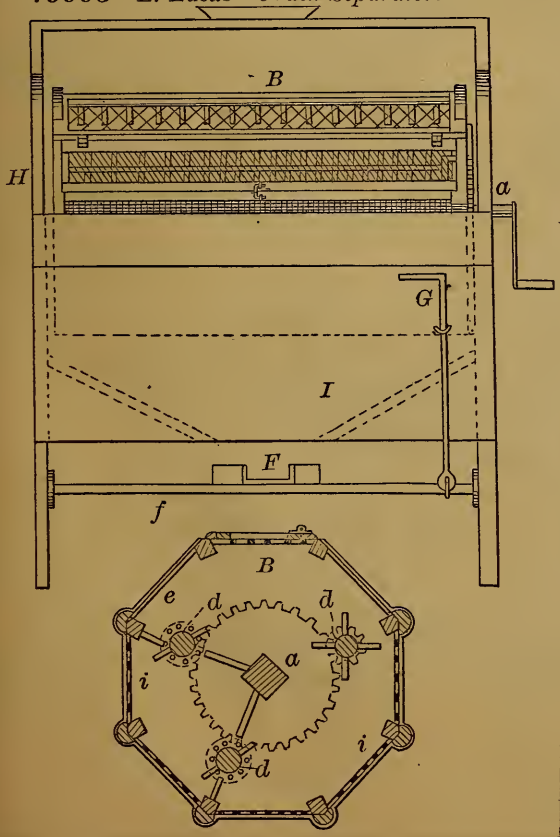
79989—H. Y. Lazear—*Gas Heater.*



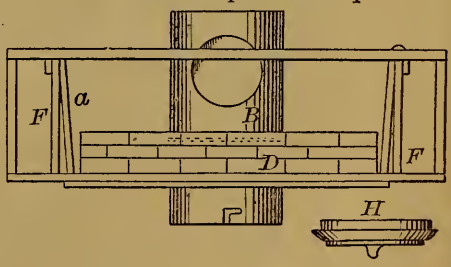
79990—P. Leonard—*For Dressing Grindstones, &c.*



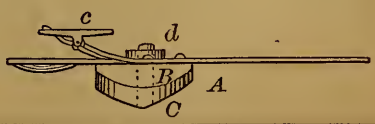
79993—E. Lucas—*Grain Separator.*



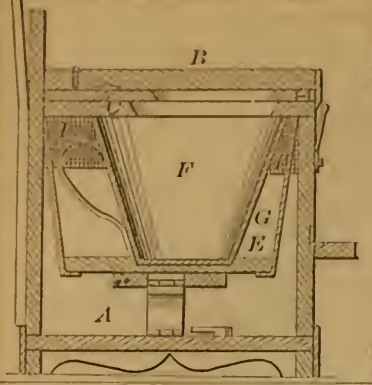
79992—J C. Loup—*Stove Pipe.*



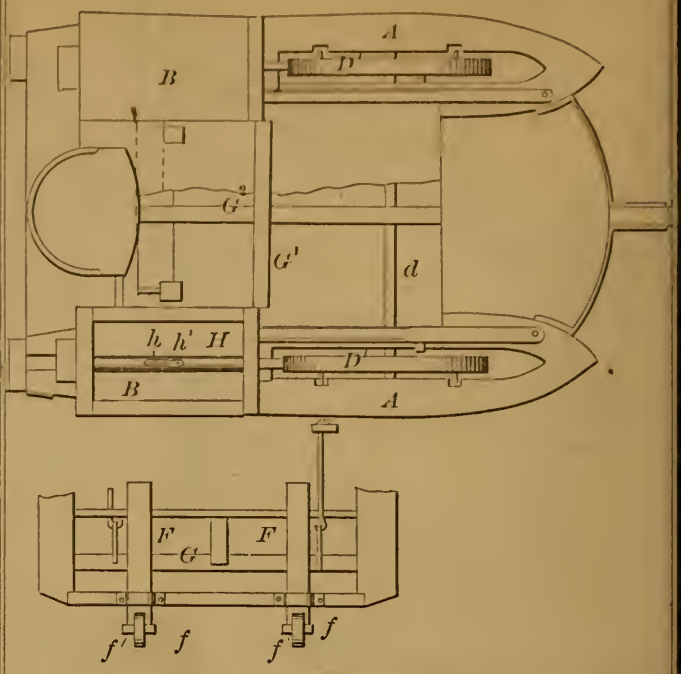
79991—T. J. Lindley—*Truss Pad.*



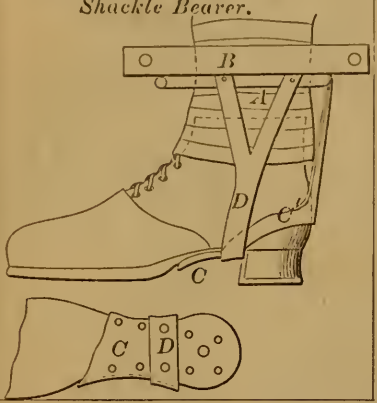
79994—W. J. Lyman—*Portable Chamber Closet.*



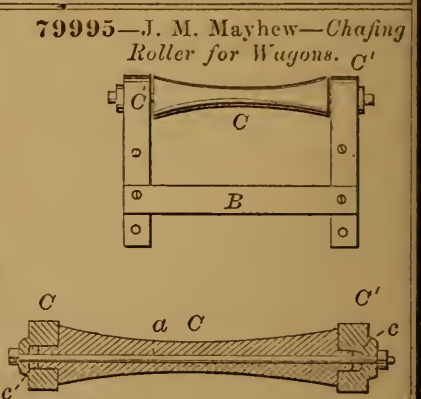
79998—W. McLucas—*Double Corn Planter.*



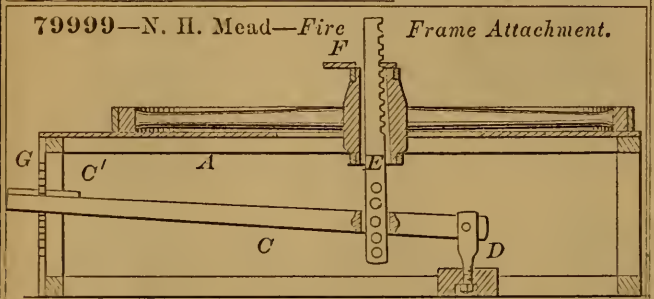
79996—J. W. Mayhew—*Shackle Bearer.*



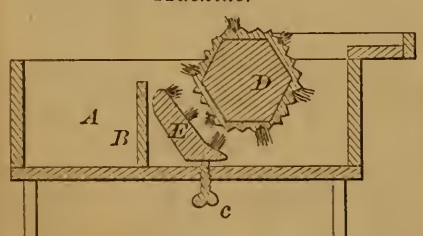
79995—J. M. Mayhew—*Chafing Roller for Wagons.*



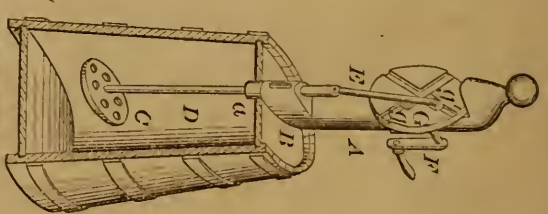
79999—N. H. Mead—*Fire Frame Attachment.*



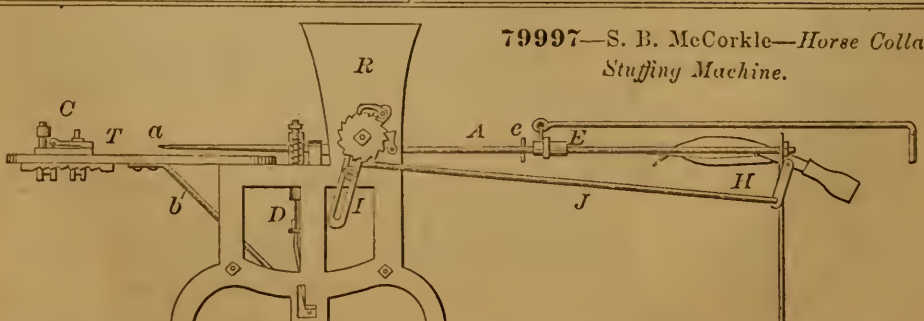
80000—C. Milner—*Washing Machine.*



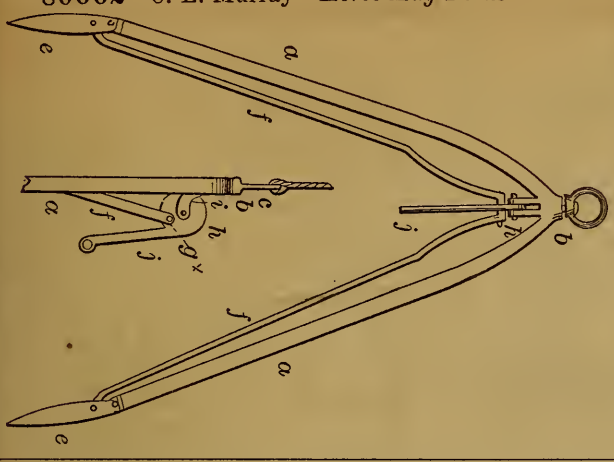
80001—D. Morris—*Churn Motion.*



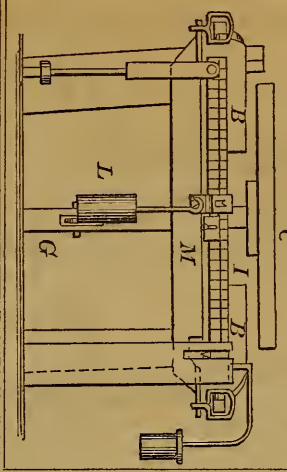
79997—S. B. McCorkle—*Horse Collar Stuffing Machine.*



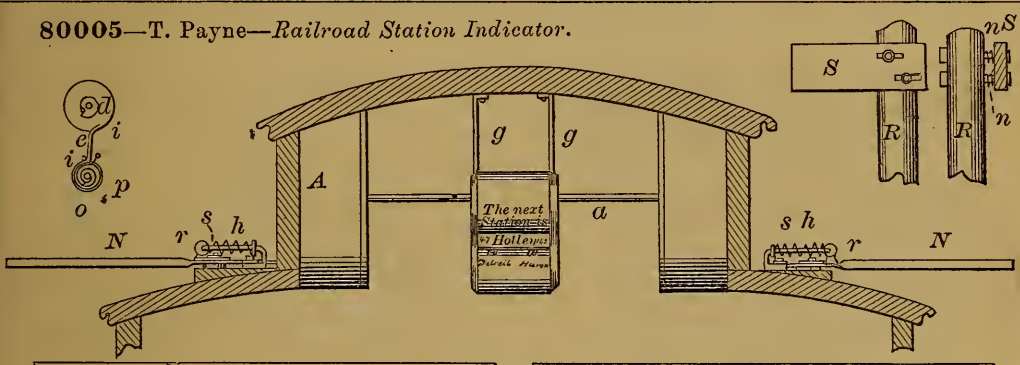
80002—C. E. Murray—*Horse Hay Fork.*

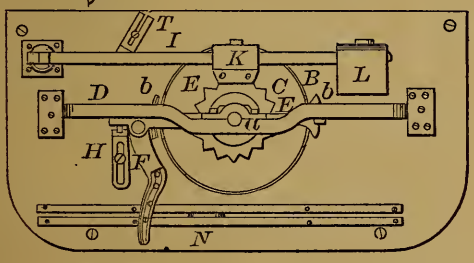


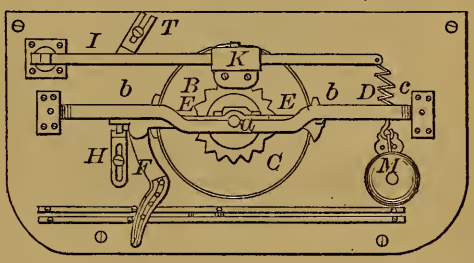
80003—B. W. Ogburn—*Calculating Balance.*



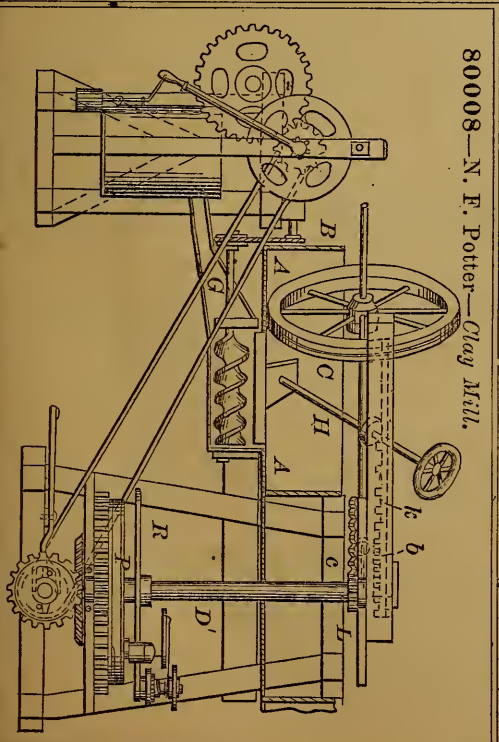
80005—T. Payne—*Railroad Station Indicator.*



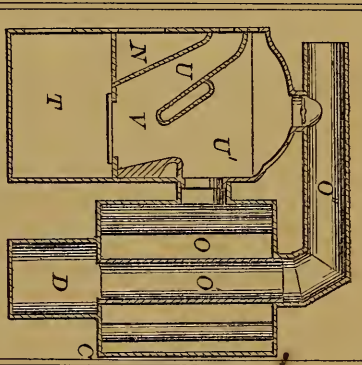




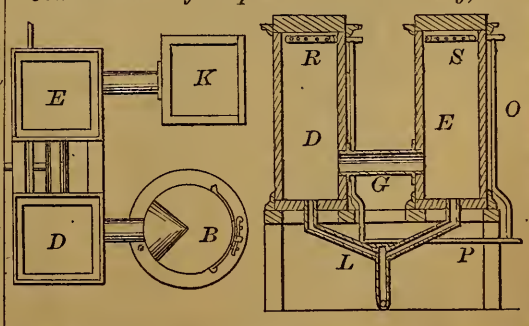
80008—N. F. Potter—*Clay Mill.*



80007—S. Pierce—*Stove.*

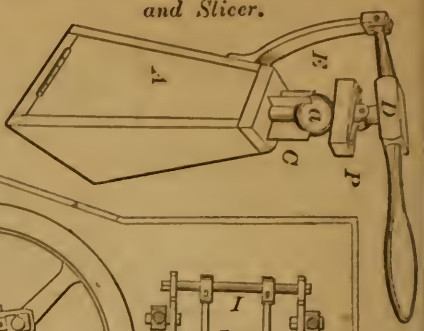


80006—C C. & G. F. Peirson—*For Condensation of Vapors in Lard Boiling, &c.*

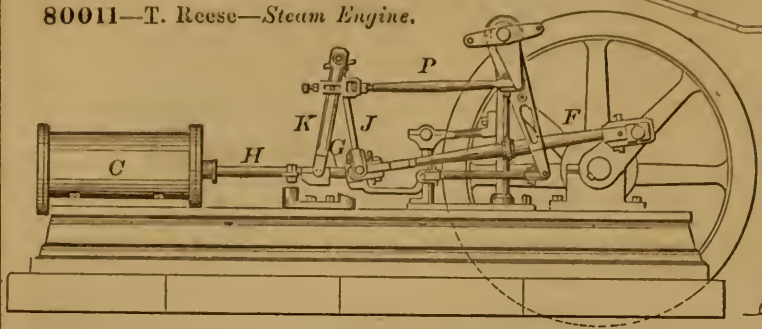


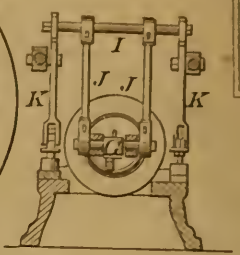
80009—L. A. Powers—*Table Fork.*

80010—D. R. Reed—*Apple Corer and Slicer.*

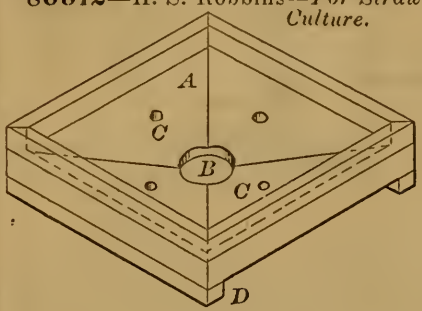


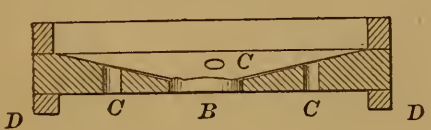
80011—T. Reese—*Steam Engine.*



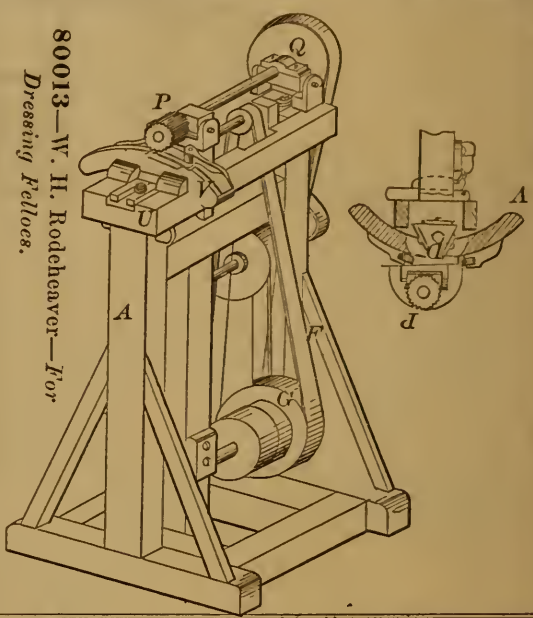


80012—H. S. Robbins—*For Strawberry Culture.*

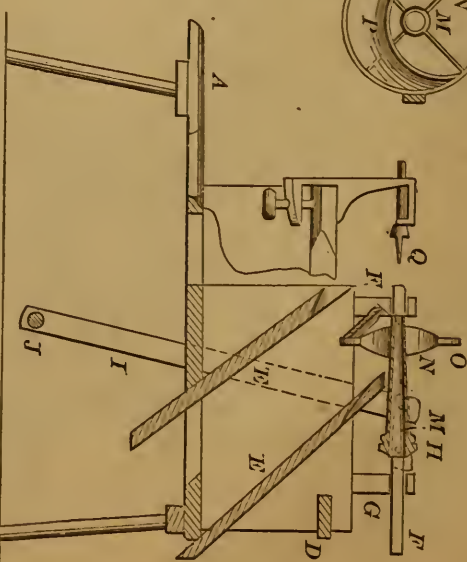




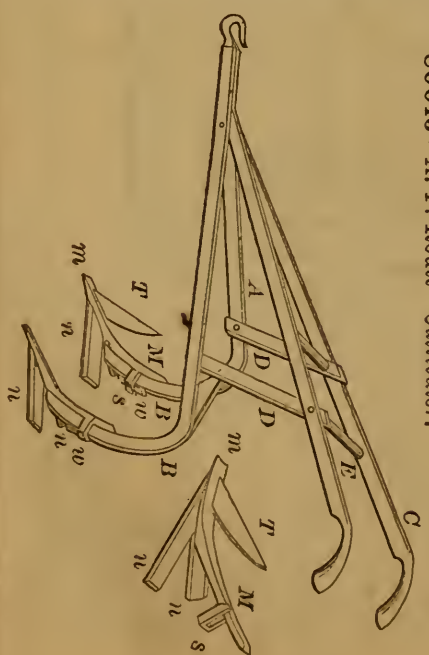
80013—W. H. Rodeheaver—*For Dressing Felloes.*



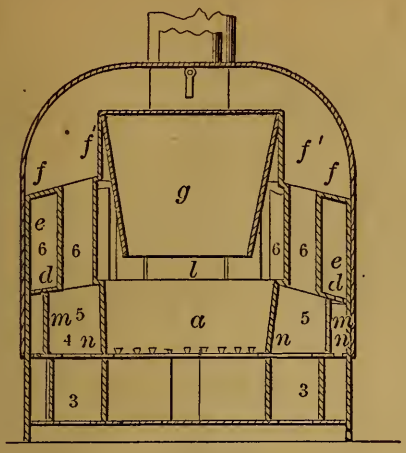
80014—I. Rogers—*Apple Corer and Slicer.*

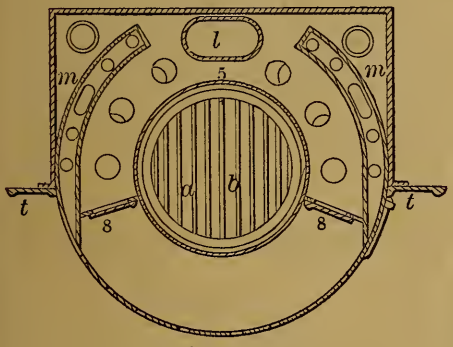


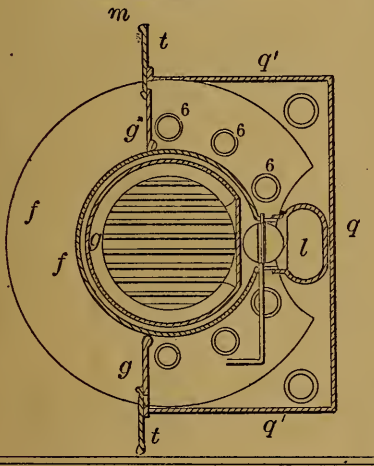
80015—A. P. Routt—*Cultivator.*



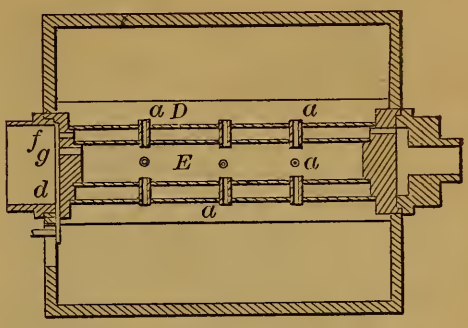
80016—A. K. Sanders—*Stove.*



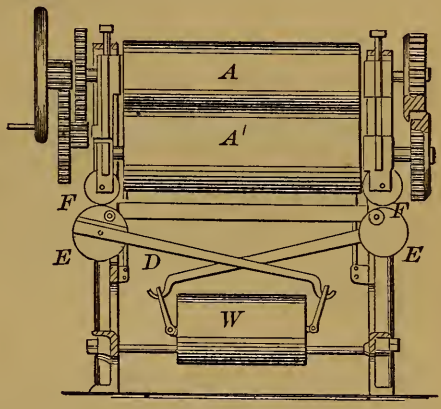




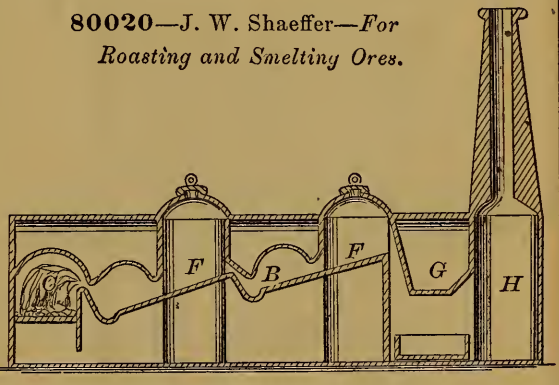
80017—A. C. Sanford—*Renovating Feathers.*



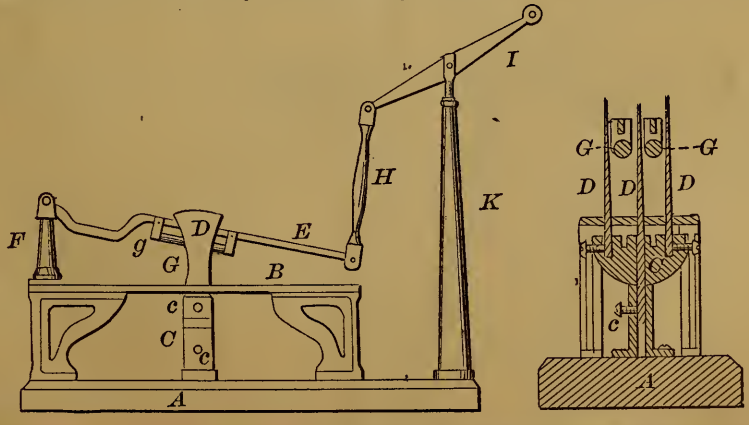
80019—J. Seaman—*Ironing Machine.*



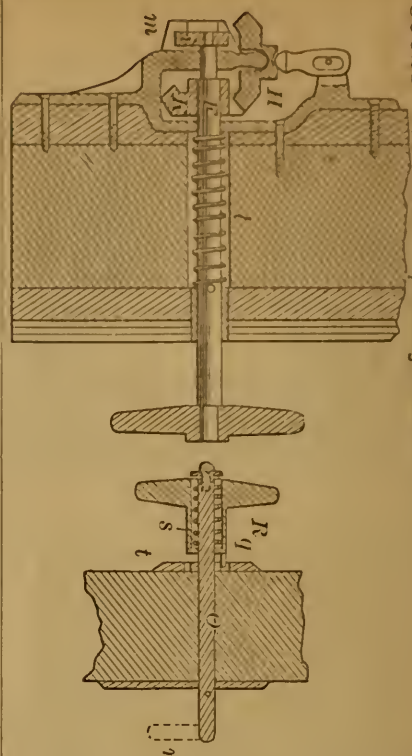
80020—J. W. Shaeffer—*For Roasting and Smelting Ores.*



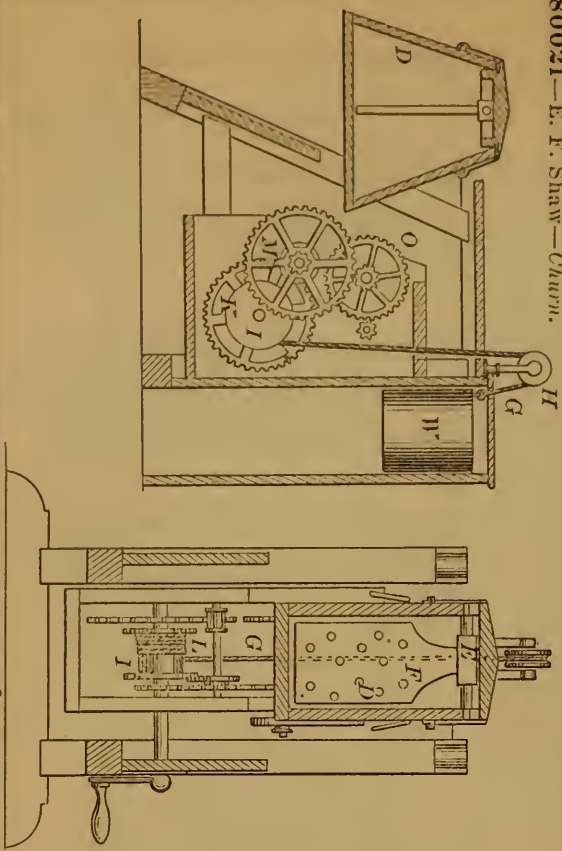
80018—C. Schmitz—*For Stretching and Softening Skins.*



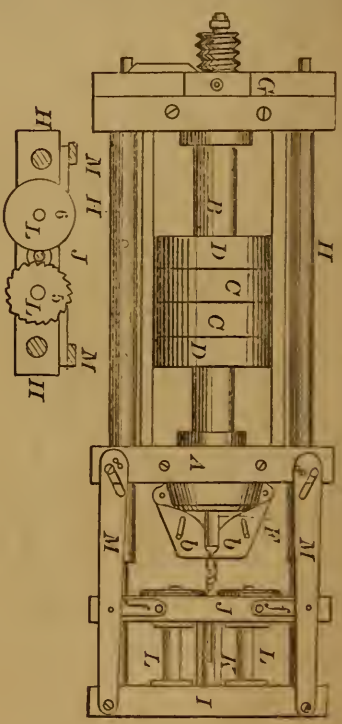
80023—T. J. Sloan—*Operating Shutters.*



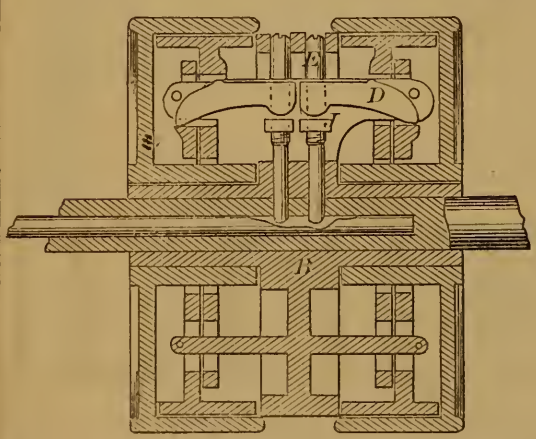
80021—E. F. Shaw—*Churn.*



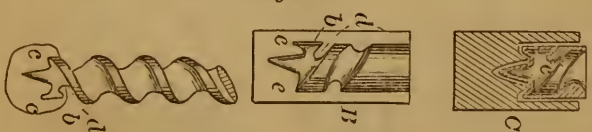
80022—G. V. Sheffield—*Manufacturing Screws.*



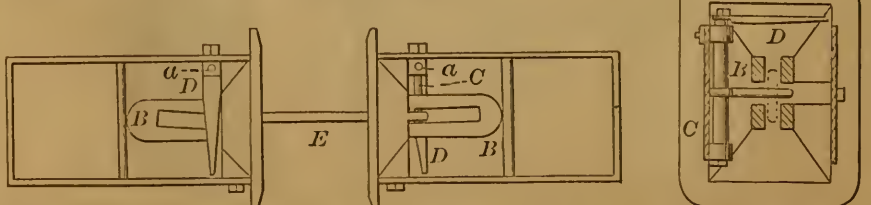
80024—H. K. Smith—*Friction Clutch Pulley.*



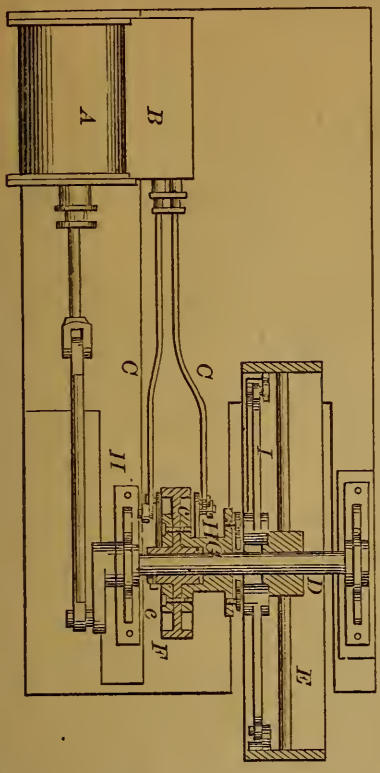
80027—J. Swan—*Auger Bit.*

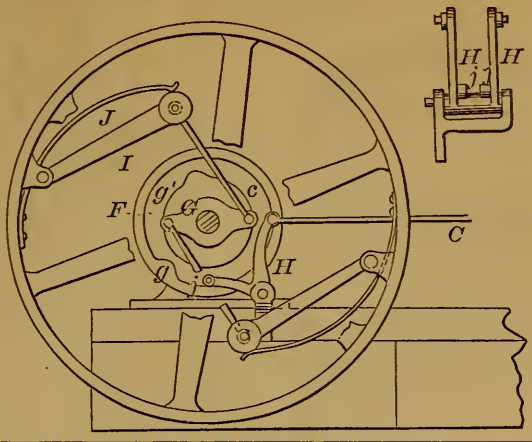


80026—D. M. Steward—*Car Coupling.*

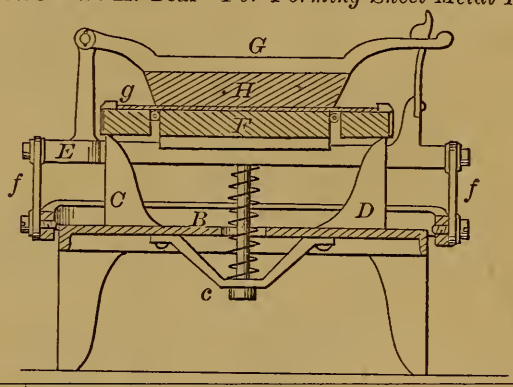


80025—S. Stanton—*Cut-off Valve Gear.*

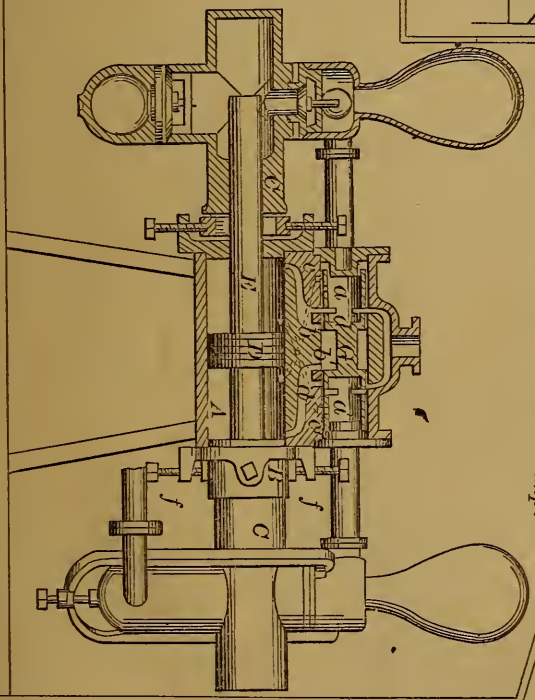




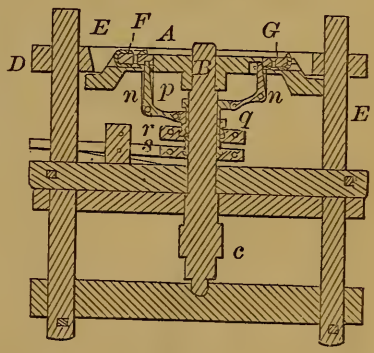
80028—W. H. Teal—*For Forming Sheet Metal Pans.*



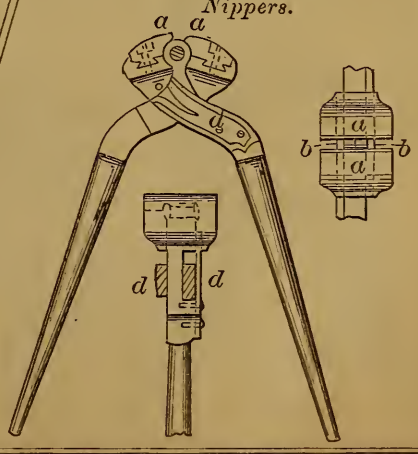
80030—W. R. Thomas—*Steam Pump.*



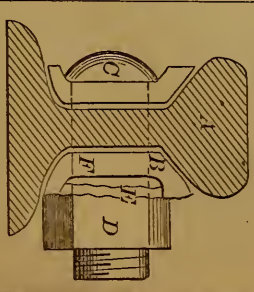
80032—C. Titus—*Dressing Barrels.*



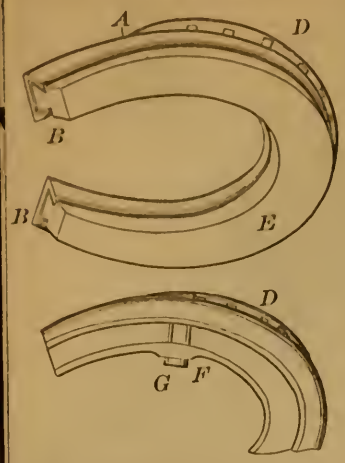
80031—N. Thompson—*Cutting Nippers.*



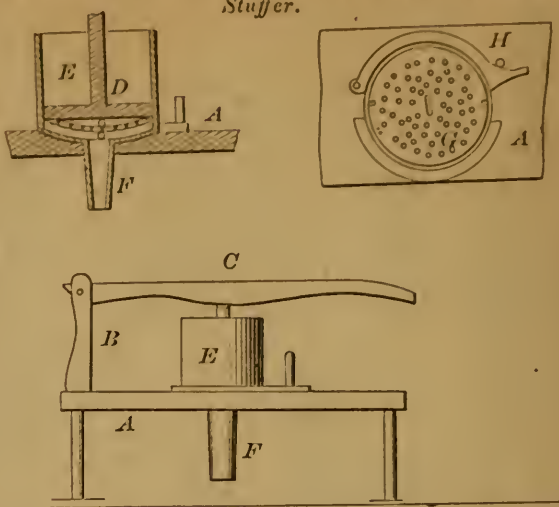
80034—A. N. Towne—*Lock Nut.*



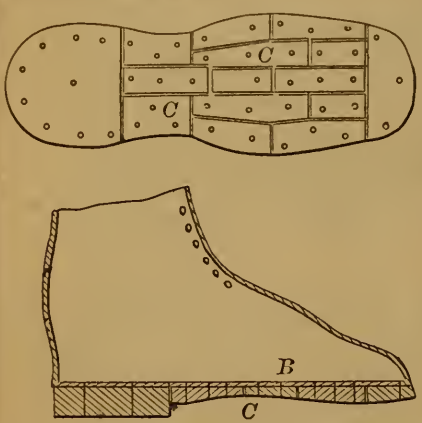
80033—J. S. Toan—*Horse Shoe.*



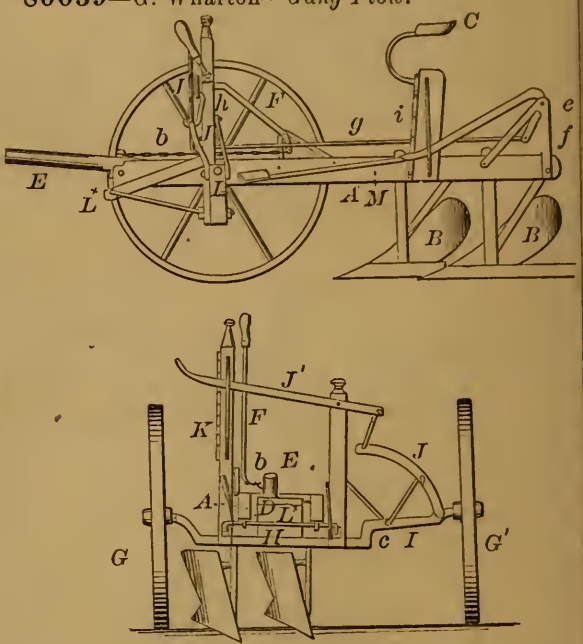
80035—A. J. Truxell—*Lard Press and Sausage Stuffer.*



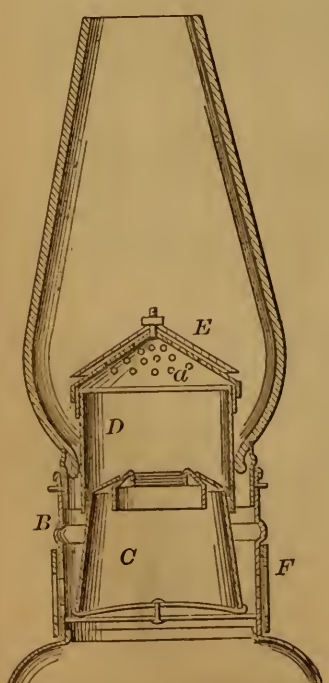
80037—B. Van Ausdall—*Boot Sole.*



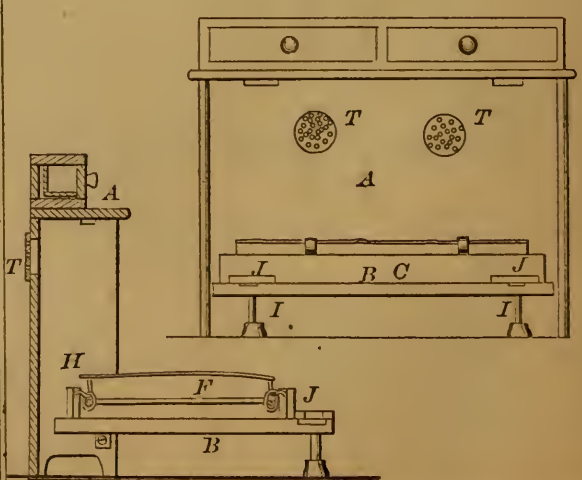
80039—G. Wharton—*Gang Plow.*



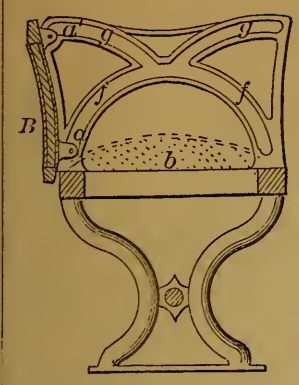
80040—A. Whelden—*Lantern.*



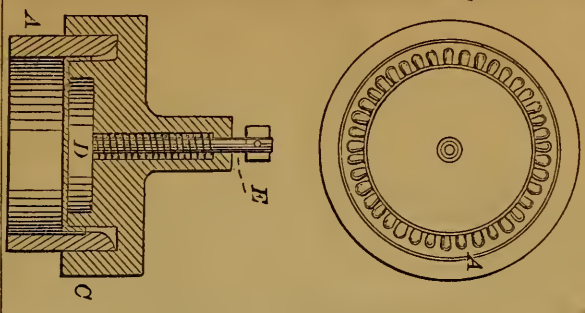
80038—A. J. Vawter—*Office Bed.*



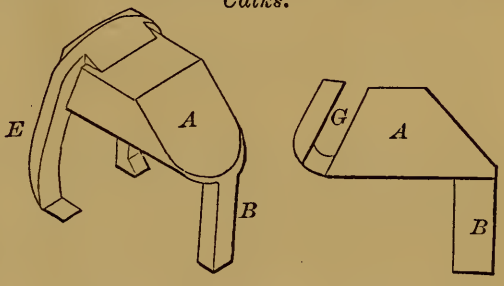
80041—A. M. White—*Railway Car Seat.*



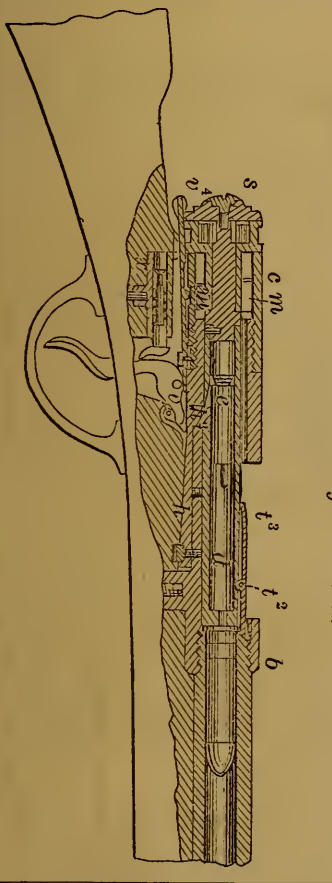
80042—H. G. Williams—*Die and Plunger.*



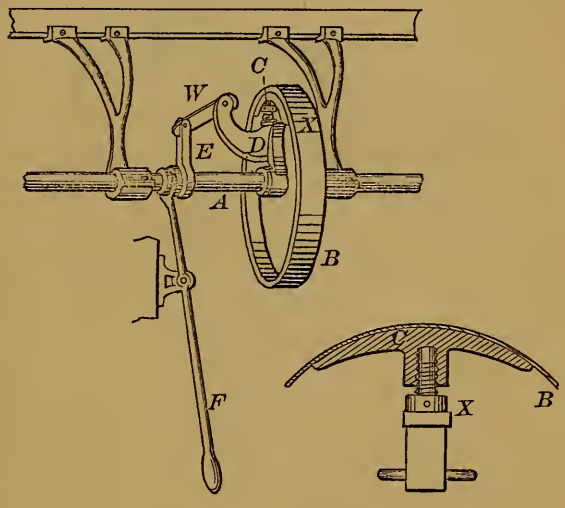
80044—P. Wineyard—*For Sharpening Horse Shoe Calks.*



80043—T. Wilson—*Breech-Loading Fire Arm.*



80045—C. Wright—*Friction Clutch Pulley.*



80046—H. W. Adams—*Brick Kiln.*

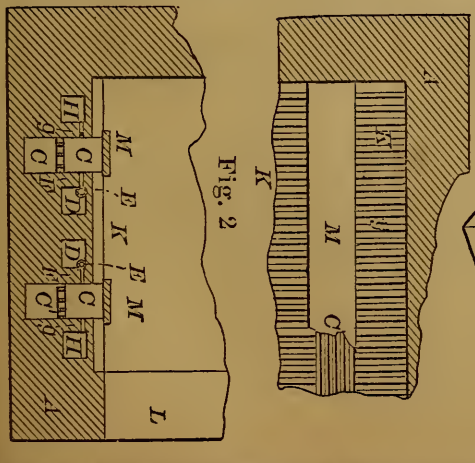


Fig. 2

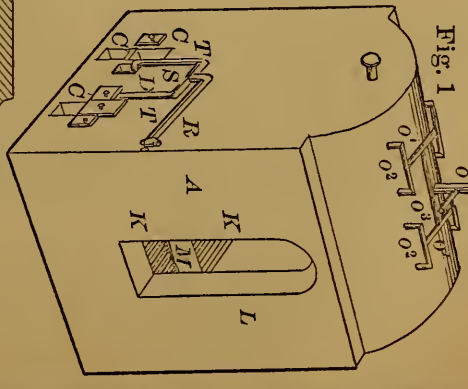
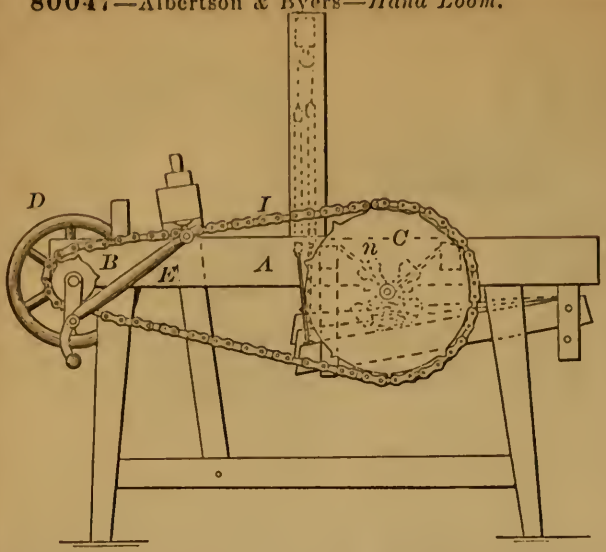
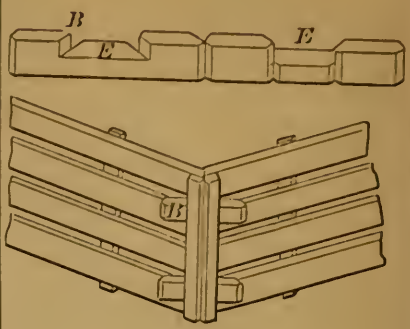


Fig. 1

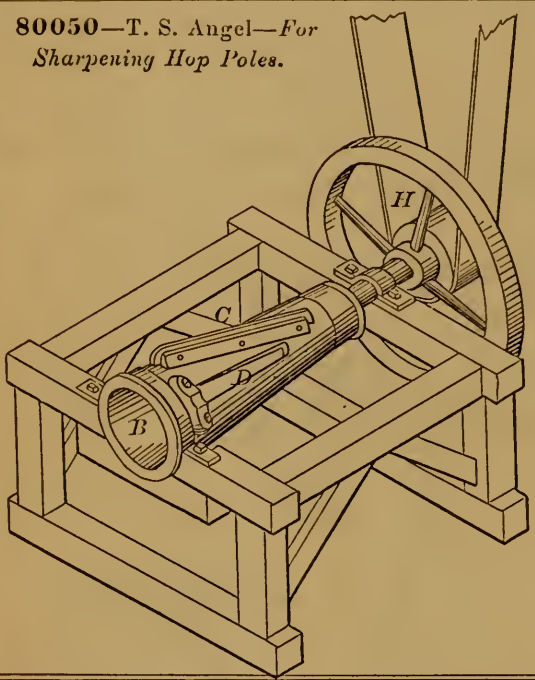
80047—Albertson & Byers—*Hand Loom.*



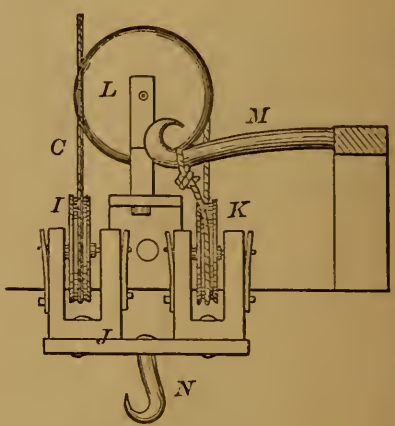
80052—B. F. Brattain—*Fence.*

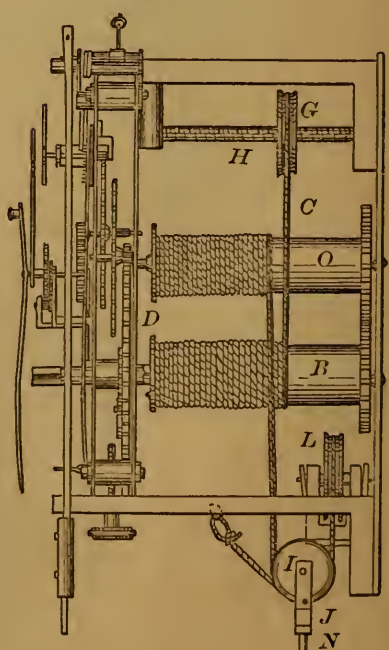


80050—T. S. Angel—*For Sharpening Hop Poles.*

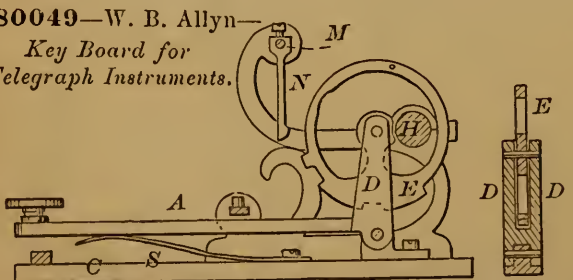


80051—P. Bantel—*Chronometer.*



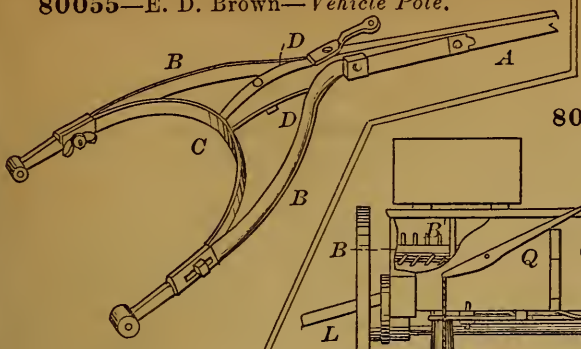


80049—W. B. Allyn—*Key Board for Telegraph Instruments.*

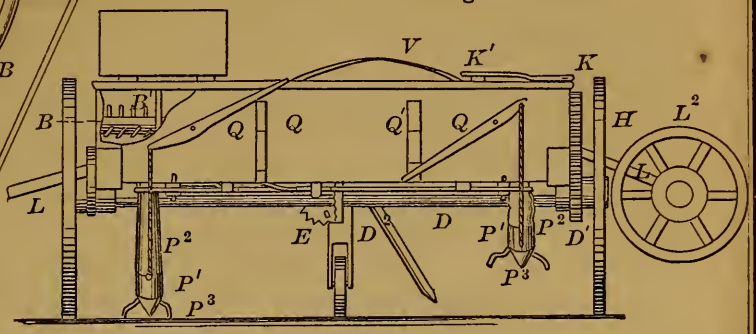


80054—Brockway & Frederick—*Fence.*

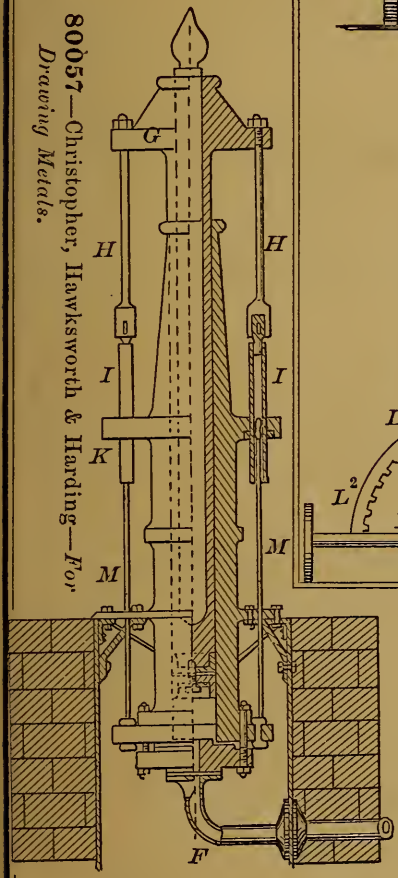
80055—E. D. Brown—*Vehicle Pole.*

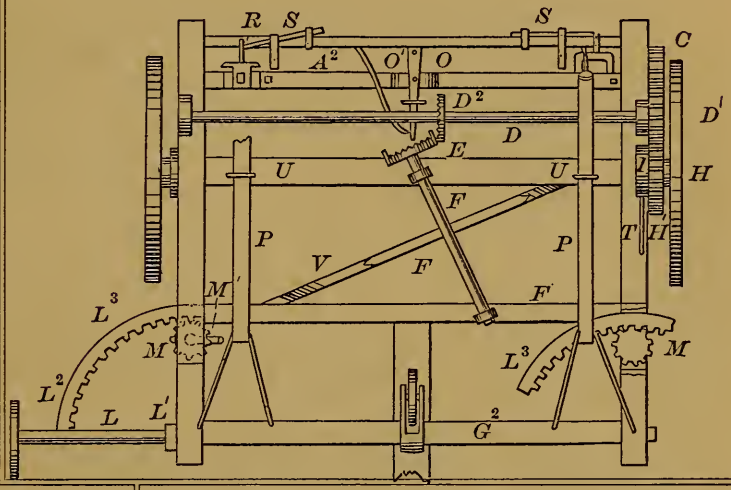


80058—Z. T. Clagett—*Corn Planter.*

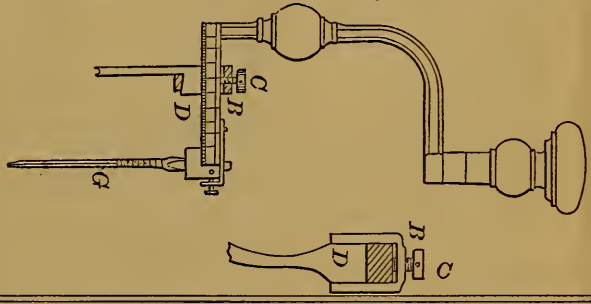


80057—Christopher, Hawkesworth & Harding—*For Drawing Metals.*

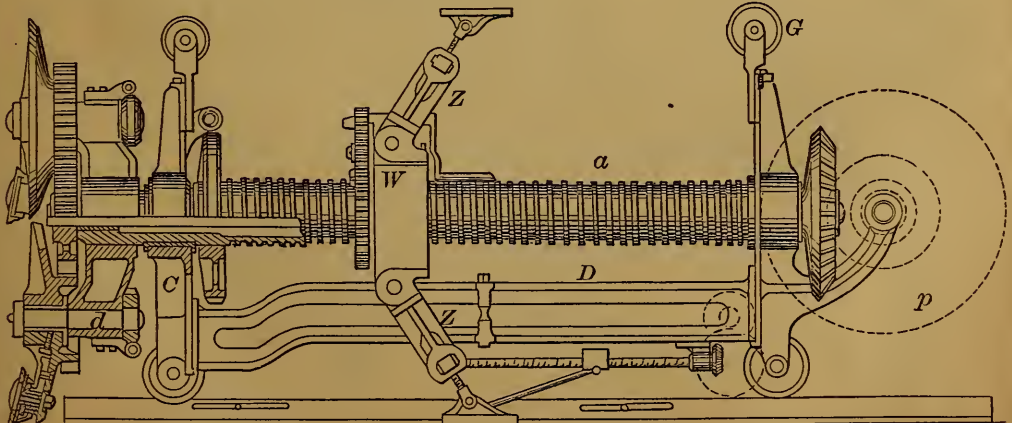




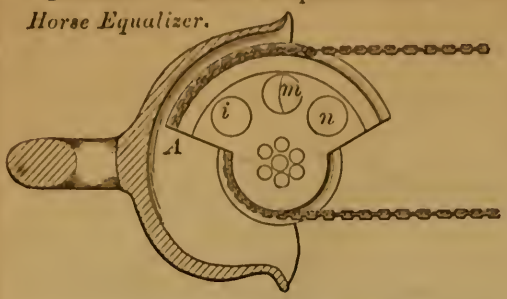
80059—A. M. Connett—*Boring Machine.*



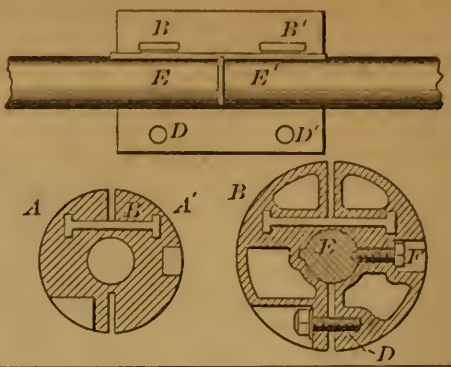
80056—J. D. Brunton—*For Sinking Shafts.*



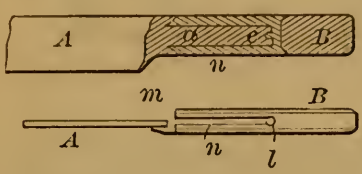
80060—Cramton & Spicer—*Three Horse Equalizer.*



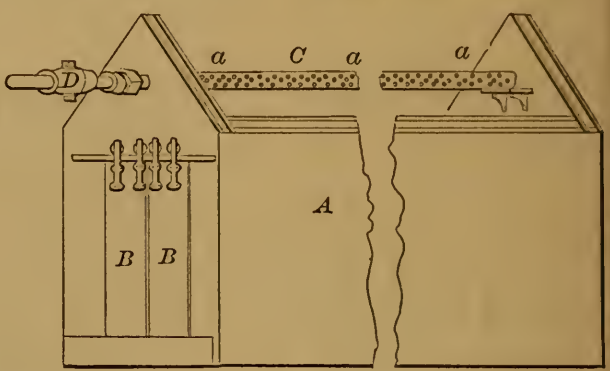
80061—W. Crandell—*Shaft Coupling.*



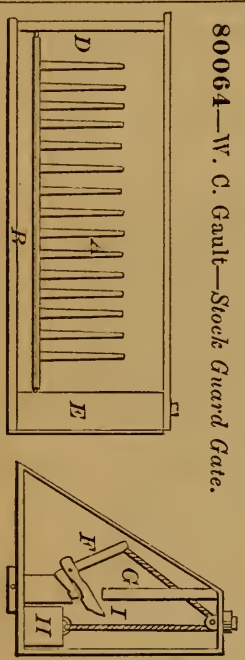
80062—E. Day—*Cutlery.*



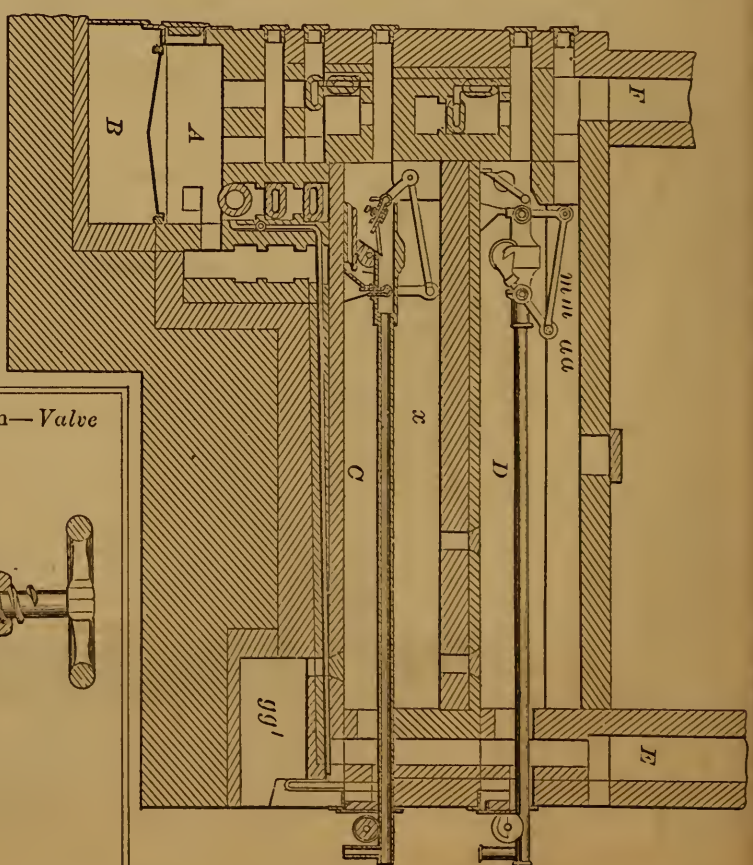
80063—R. S. Egbert—*Manufacture of Ice.*



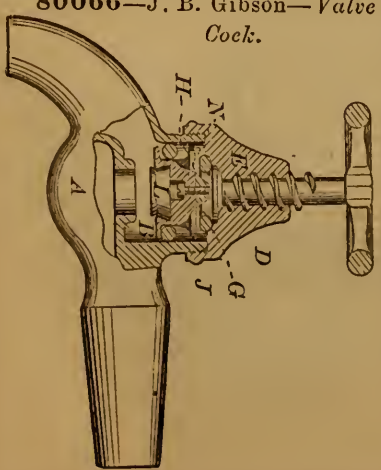
80064—W. C. Gault—*Stock Guard Gate.*



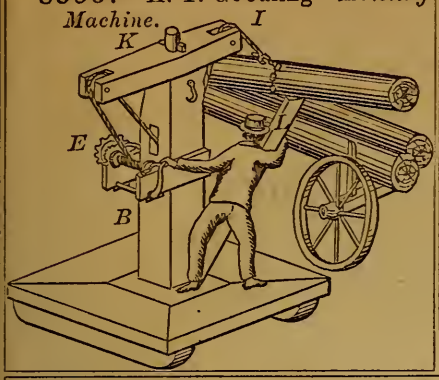
80065—R. George—*For Treating Ores.*



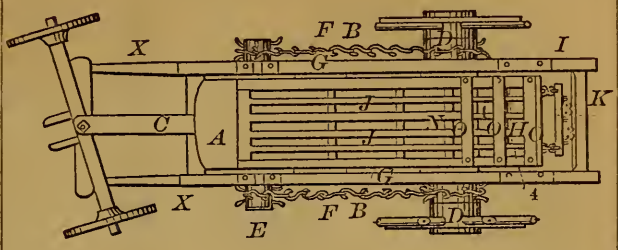
80066—J. B. Gibson—*Valve Cock.*



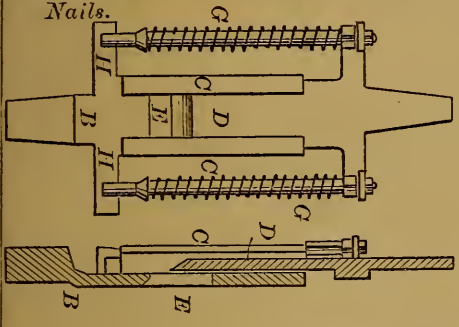
80067—H. T. Goodling—*Hoisting Machine.*



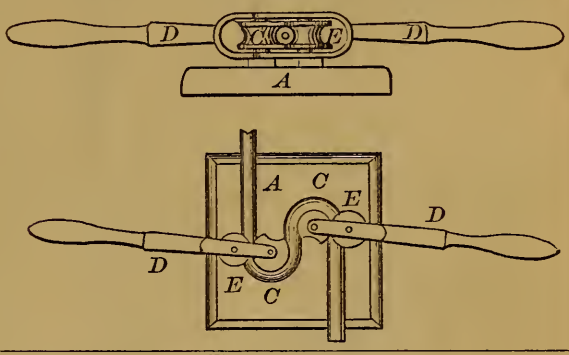
80070—M. Henderson—*Potato Digger.*



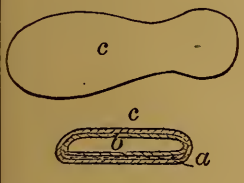
80068—M. Gormley—*For Cutting off Nails.*



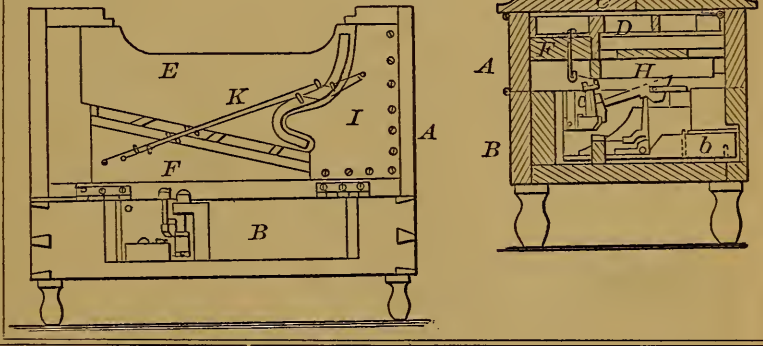
80069—T. J. Harrison—*For Bending Pipe.*



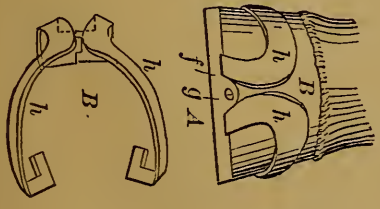
80071—R. Heneage—*Insole.*



80073—H. Herrick—*Piano Forte.*



80074—J. A. Heyl—*Horse Shoe.*



80075—J. M. Kilner—*For Towing Vessels.*

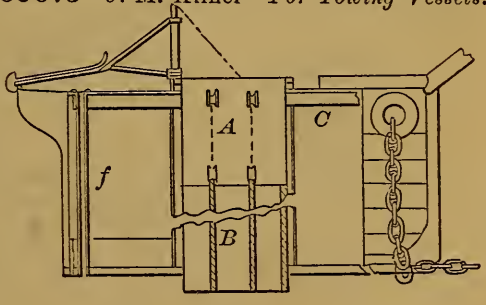
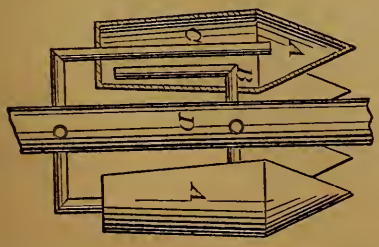
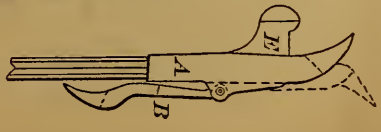


Fig. 6

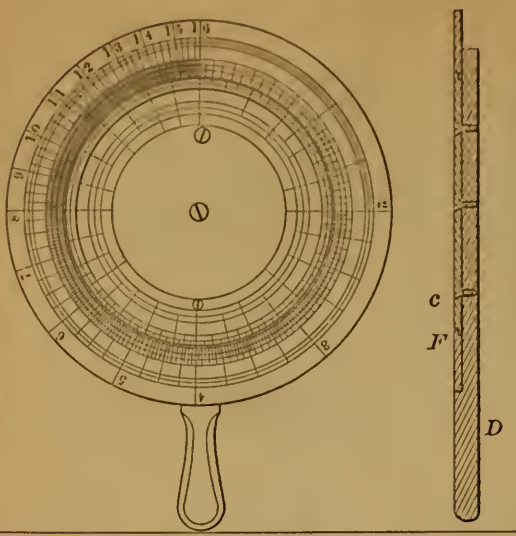
80076—J. A. Lakin—*Stove Pipe Drum.*



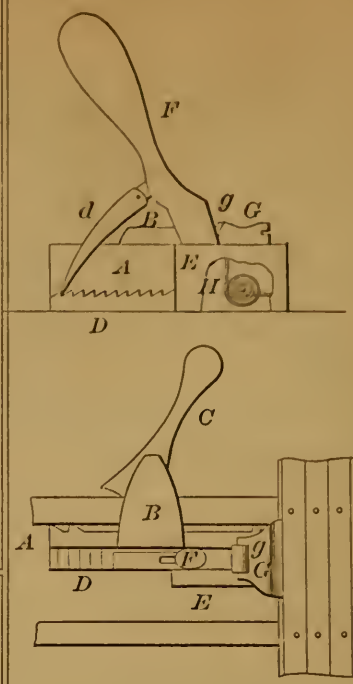
80072—M. Hennasy—*Claw Bar.*



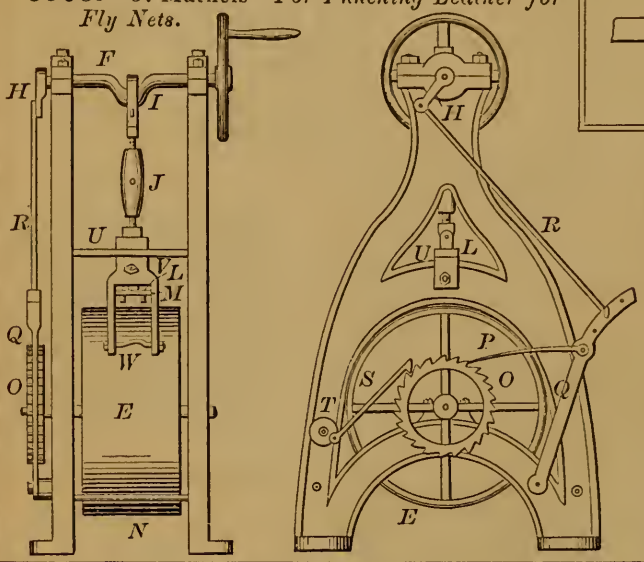
80077—C. Littlefield—*For Measuring Lumber.*



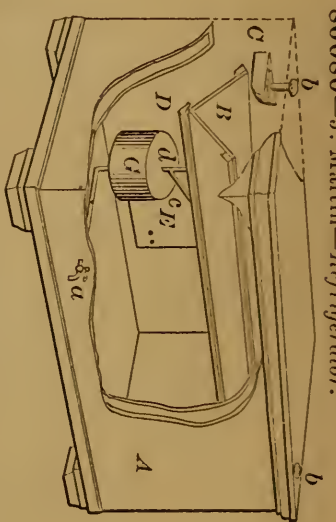
80079—F. S. Mack—*Floor Clamp.*



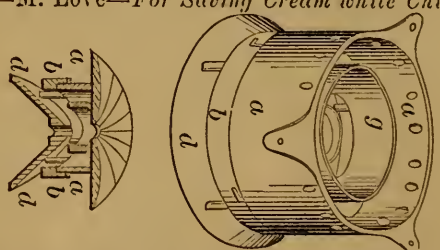
80081—J. Matheis—*For Punching Leather for Fly Nets.*



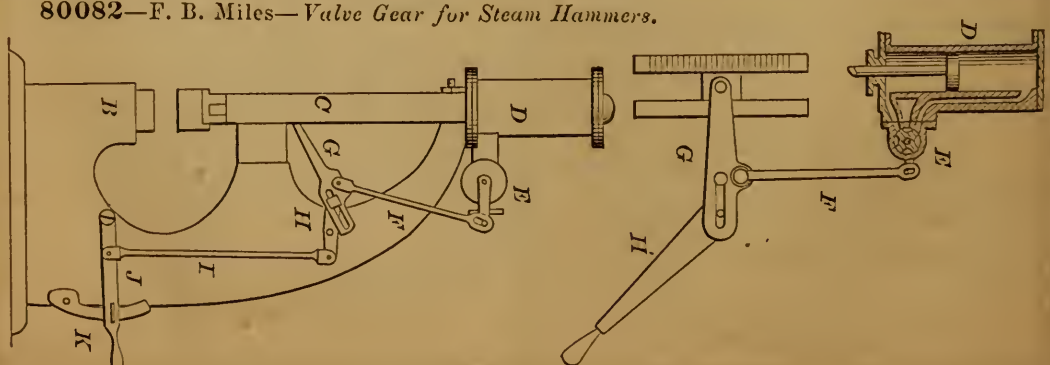
80080—J. Martin—*Refrigerator.*



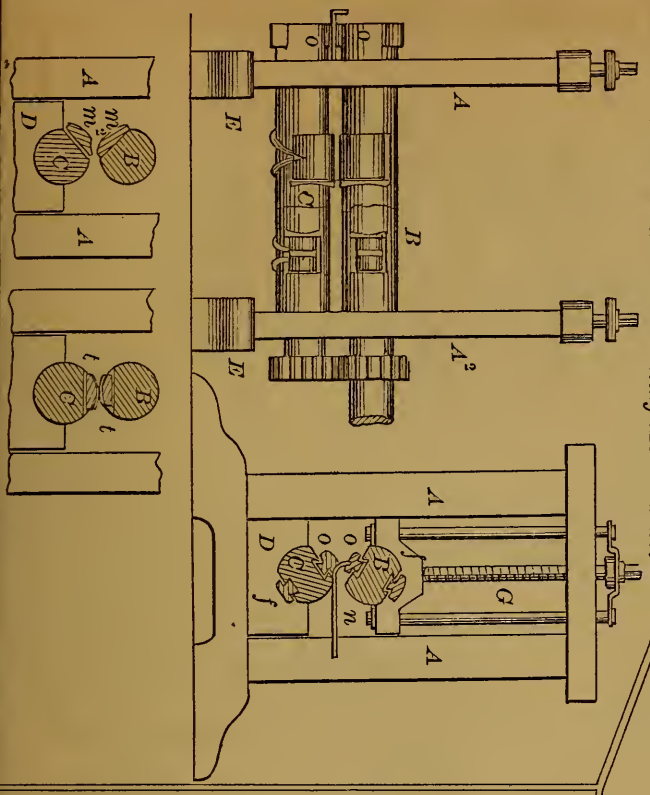
80078—M. Love—*For Saving Cream while Churning.*



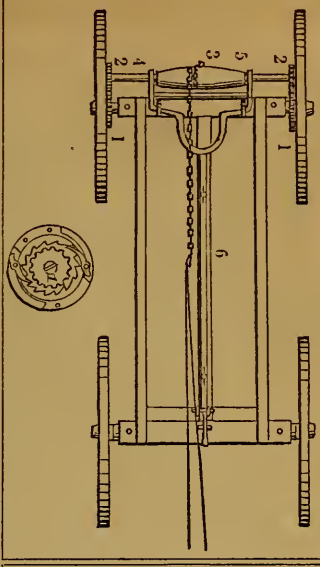
80082—F. B. Miles—*Valve Gear for Steam Hammers.*



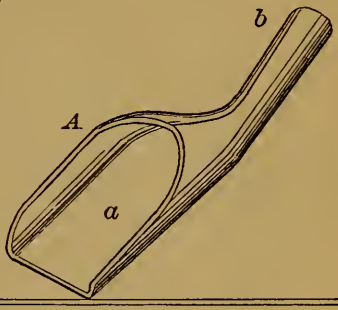
80083—S. A. Millard—*For Rolling Hoe Blanks.*



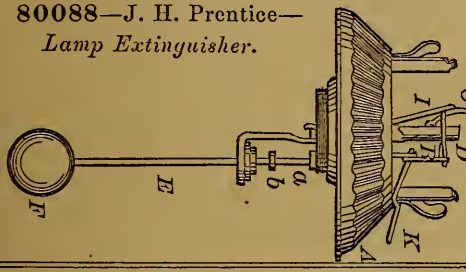
80085—M. O Connell—*For Checking Horses.*



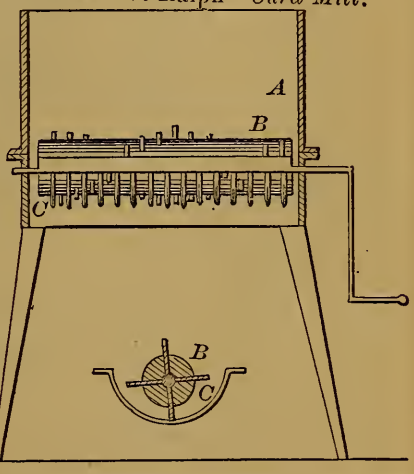
80087—J. T. Page—*Scoop.*



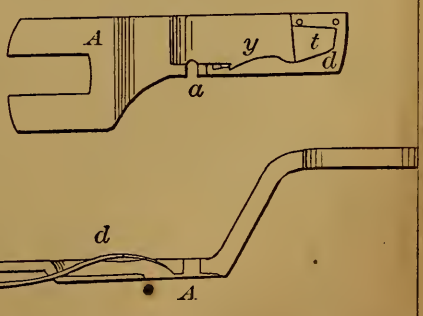
80088—J. H. Prentice—
Lamp Extinguisher.



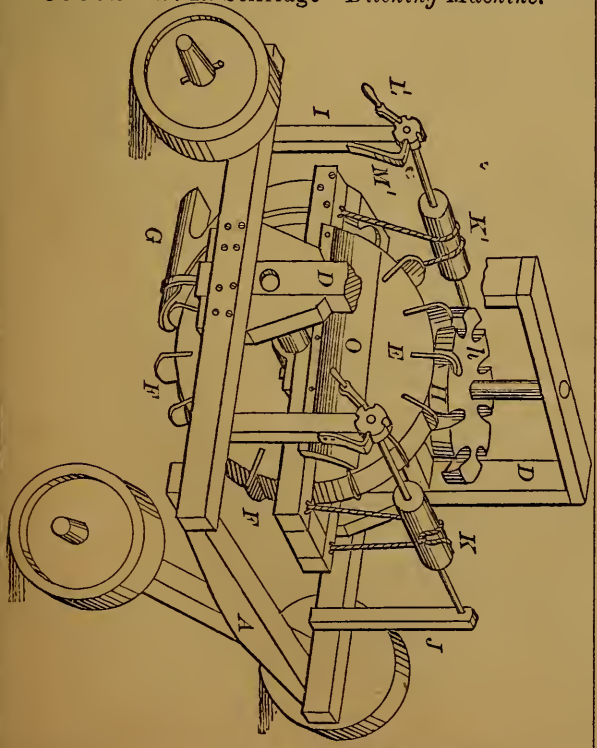
80089—W. Ralph—*Curd Mill.*



80090—G. Rehfuss—*Sewing Machine Hemmer.*



80092—W. R. Selfridge—*Ditching Machine.*



80091—S. B. Replogle—*Beehive.*

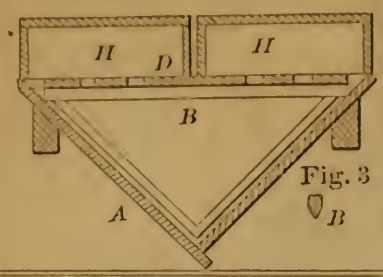
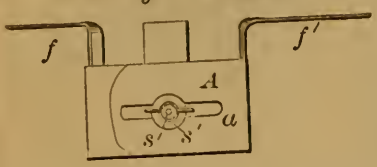
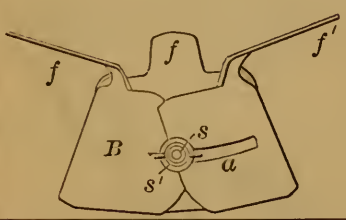


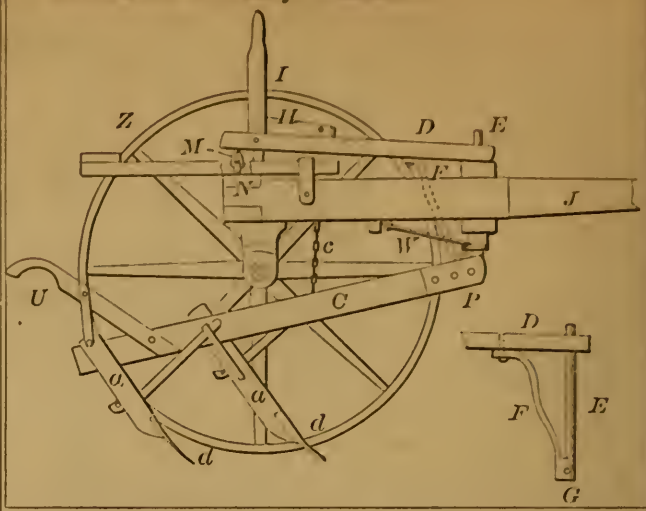
Fig. 3

80093—P. M. Shea—*Lamp Chimney Attachment.*

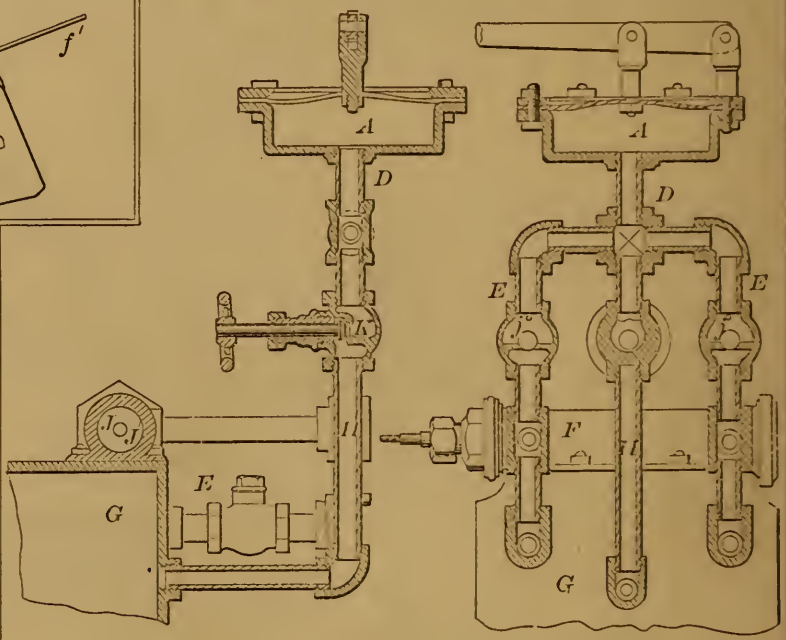




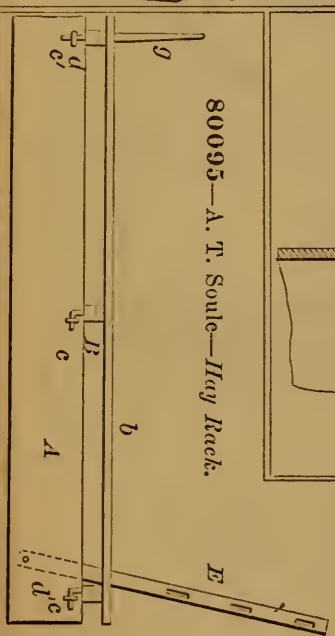
80094—J. H. Skelly—*Cultivator.*

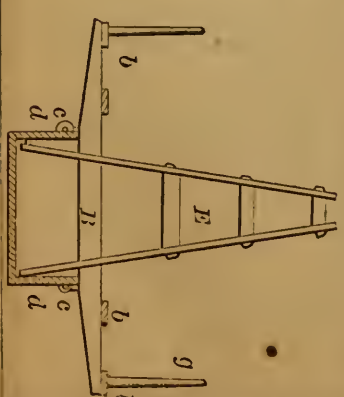


80096—J. H. Springer—*Steam Engine Governor.*

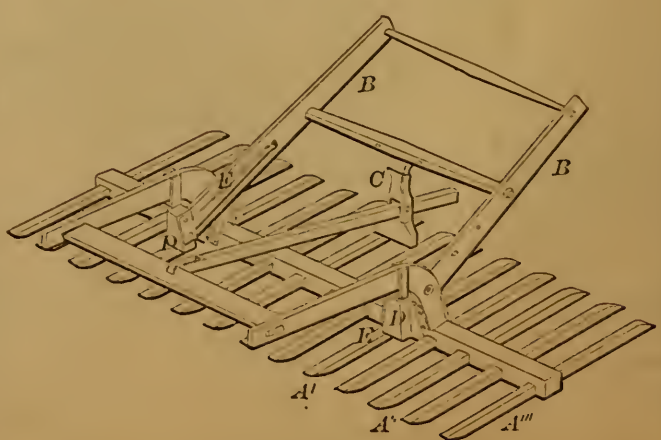


80095—A. T. Soule—*Hay Rack.*

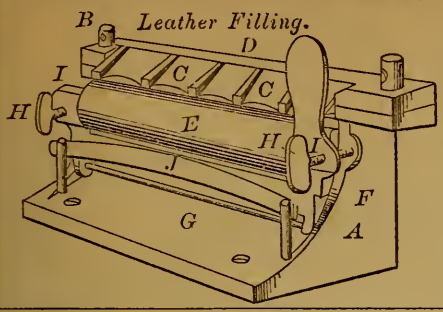




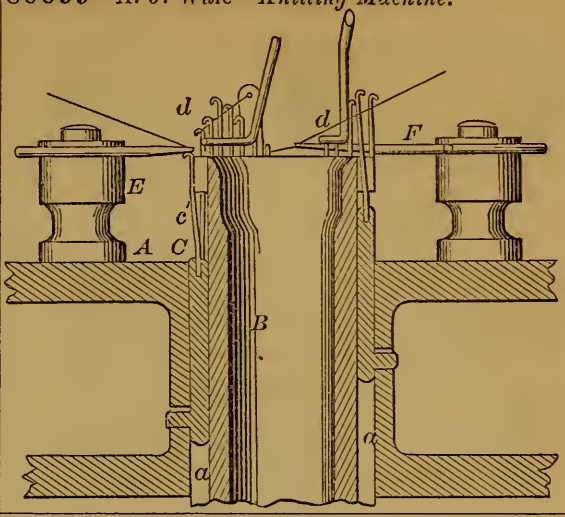
80097—C. Starrett—*Horse Rake.*



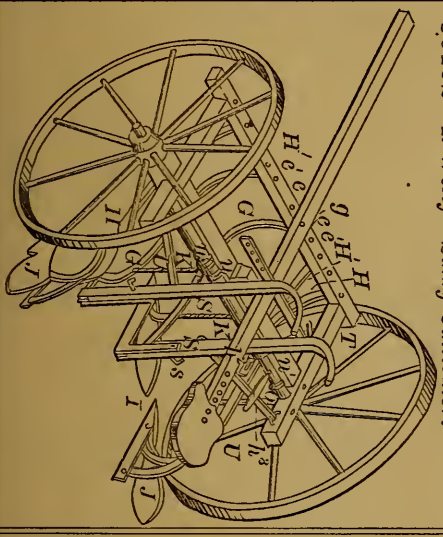
80098—R. C. Turner—*For Cutting Leather Filling.*



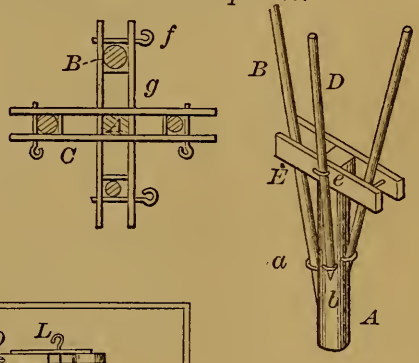
80099—A. J. Wale—*Knitting Machine.*



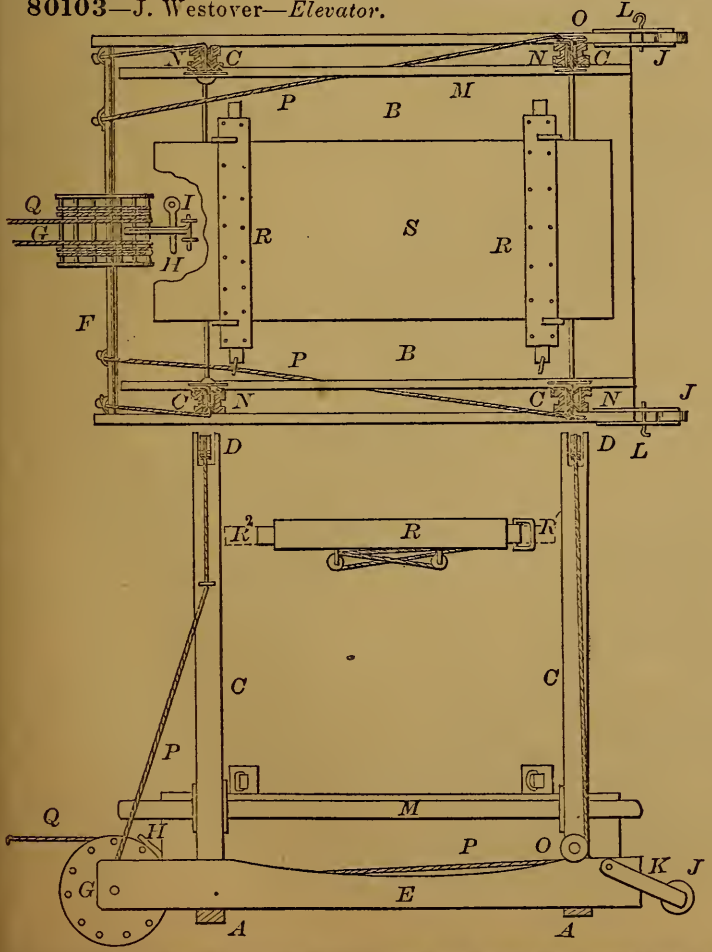
80102—I. Welty—*Sulky Cultivator.*



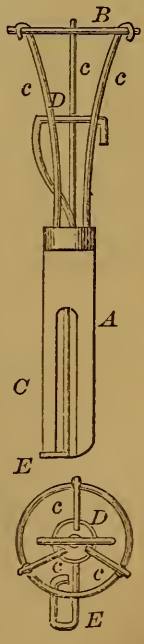
80104—J. G. Wilber—*Hop Pole.*



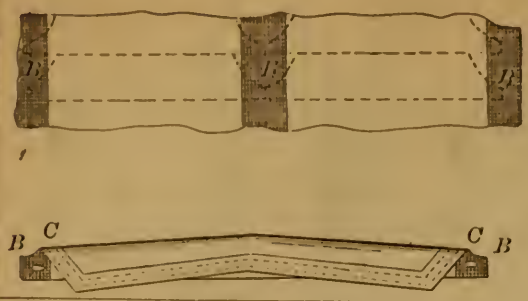
80103—J. Westover—*Elevator.*



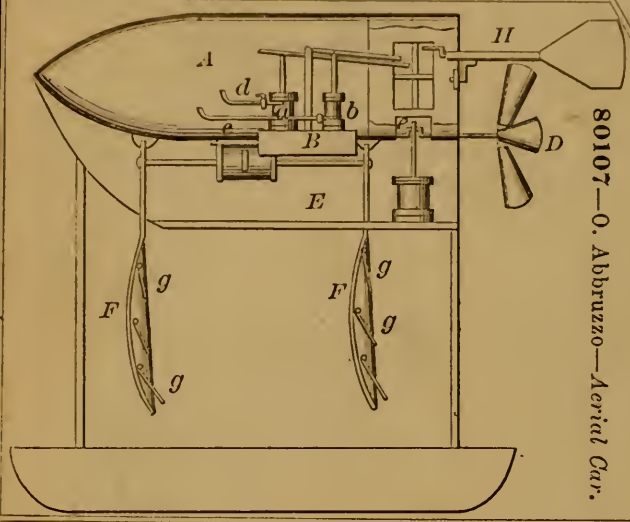
80100—J. T. Walker—*Dish Cloth Holder.*



80105—J. M. Willcox—*Manufacture of Paper.*

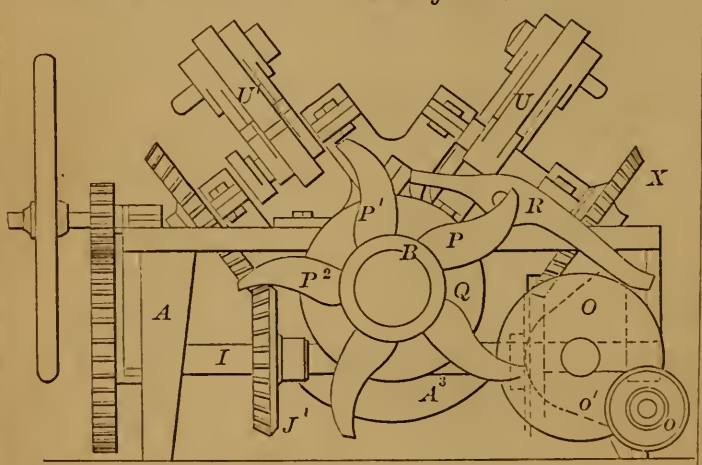


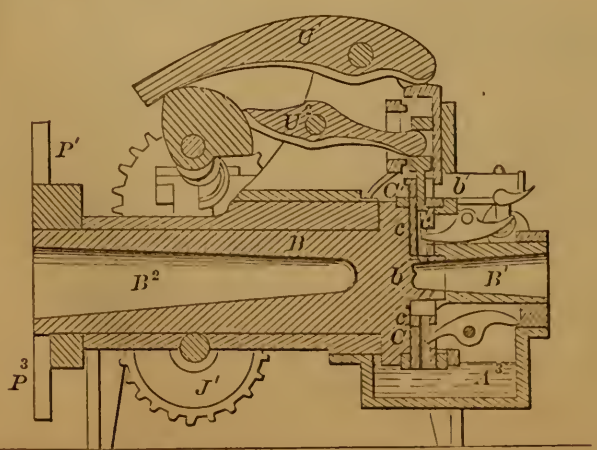
80106—Abbott, Tuttle & Holt—*Desk and Seat.*



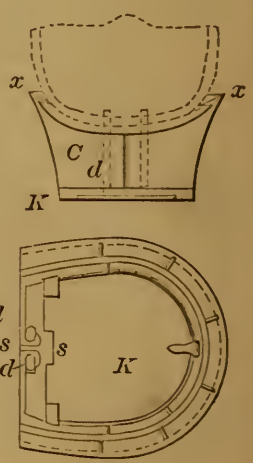
80107—O. Abbruzzo—*Aerial Car.*

80108—E. R. Addison—*For Making Nuts.*

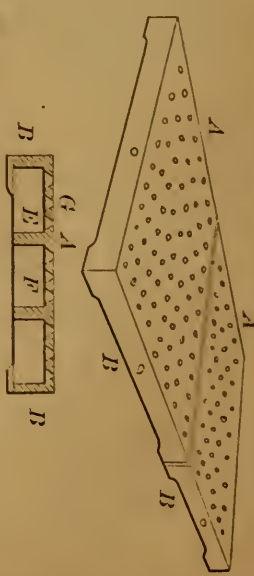




80109—Allen & Ryerson—*For Boots and Shoes.*



80110—T. G. Arnold—*Malt Kiln Tile.*



80111—L. J. Atwood—*Lamp.*

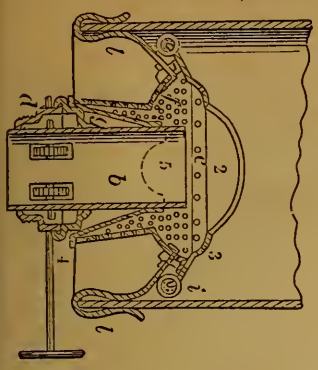
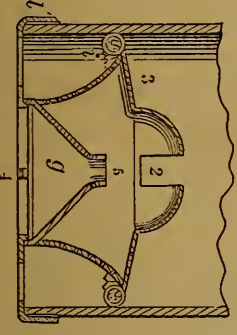
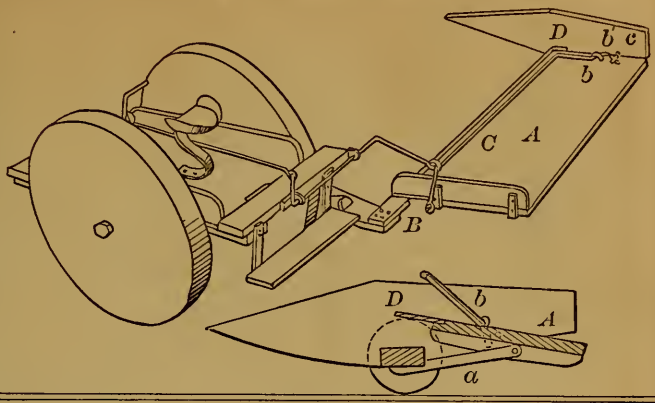


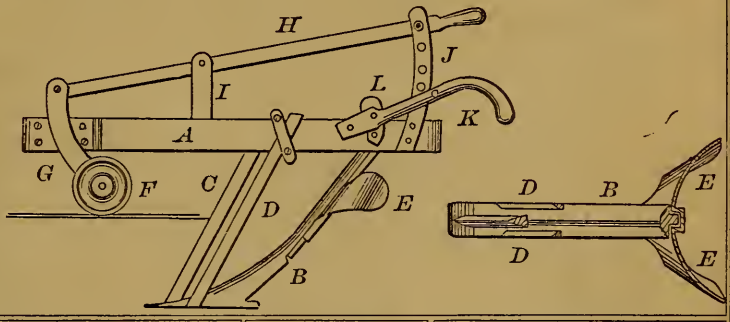
Fig. 1



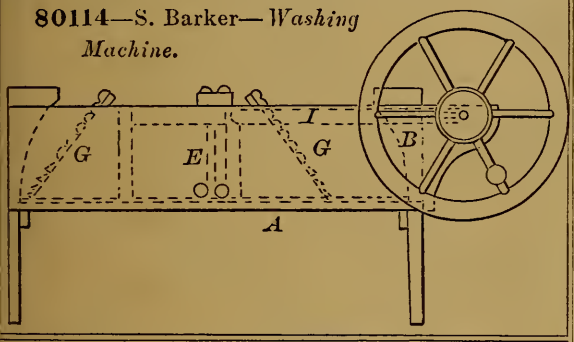
80112—E. & M. Ball—*Dropping Platform for Harvesters.*



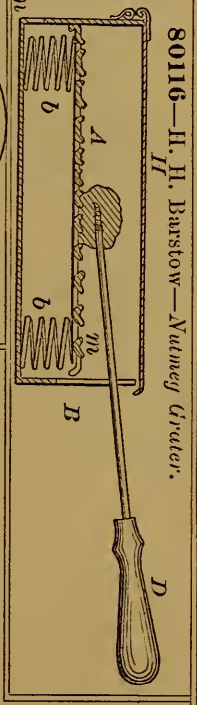
80113—P. Ballard—*Drain Plow.*



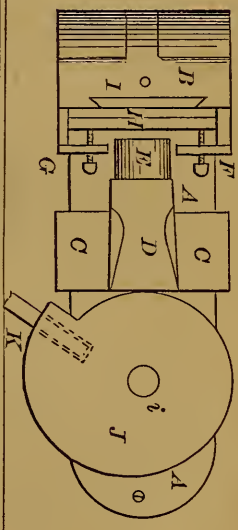
80114—S. Barker—*Washing Machine.*



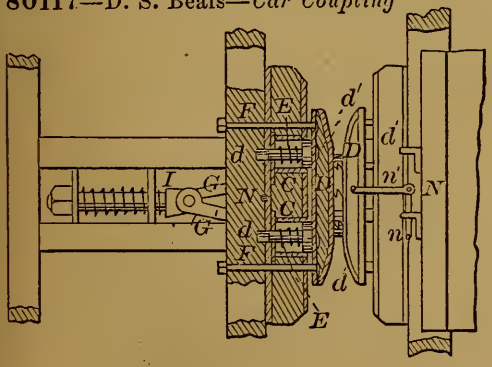
80116—H. H. Barstow—*Nutmeg Grater.*

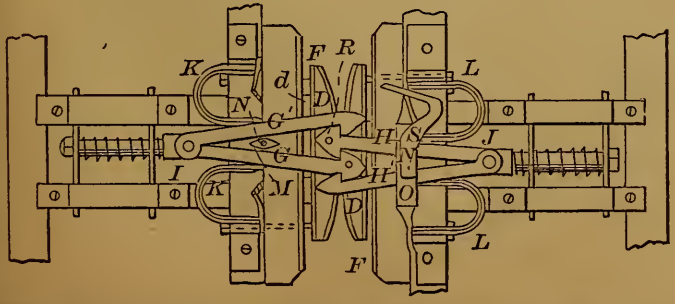


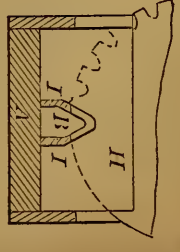
80115—D. J. Barnett—*Saw Gumming Device.*



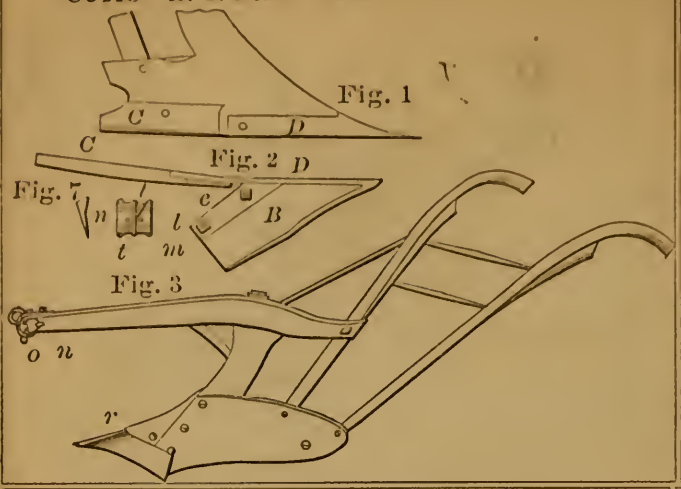
80117—D. S. Beals—*Car Coupling*



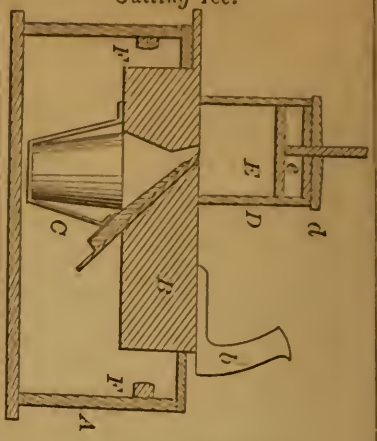




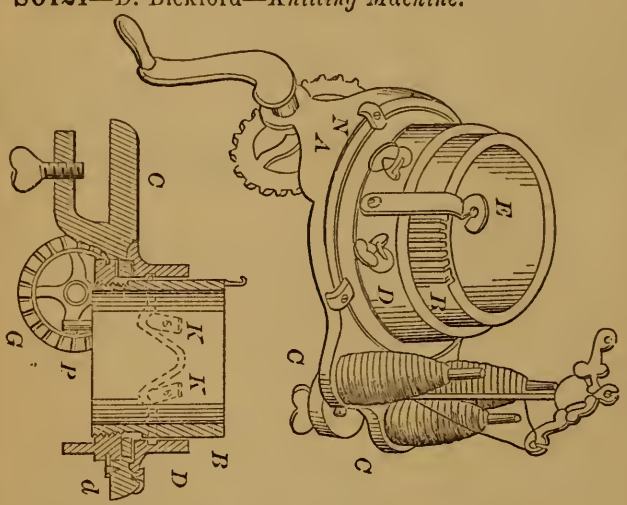
80118—H. T. Beam—*Plow.*



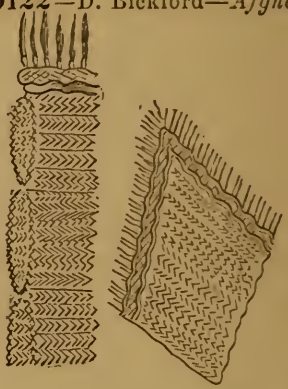
80119—C. & G. Beatty—*For Cutting Ice.*



80121—D. Bickford—*Knitting Machine.*

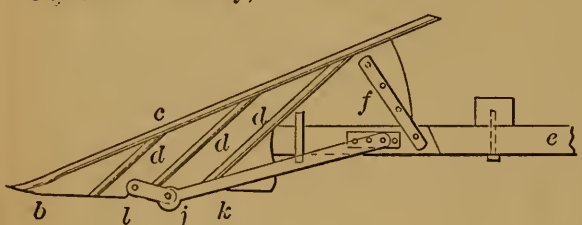


80122—D. Bickford—*Afghan.*

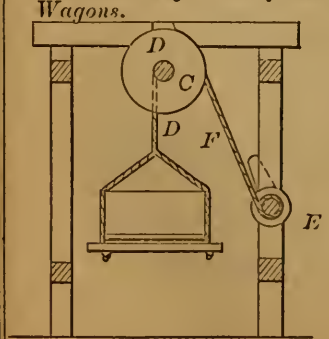


80126—G. W. Bradford—*Stove Pipe Suspender.*

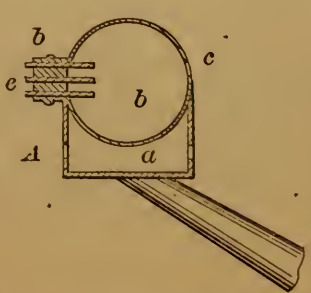
80124—O. Bonney, Jr.—*Harvester.*



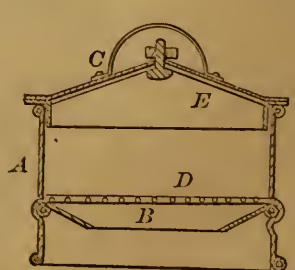
80127—S. S. Brewster—*For Removing Boxes from Wagons.*



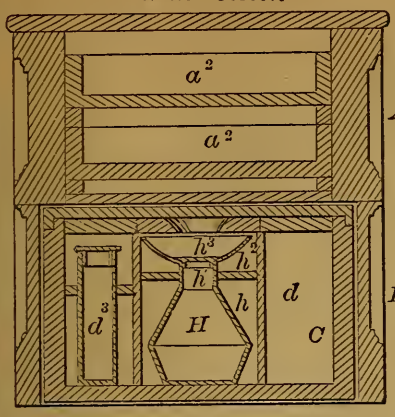
80128—R. M. Brooks—*Scrubbiny Brush.*



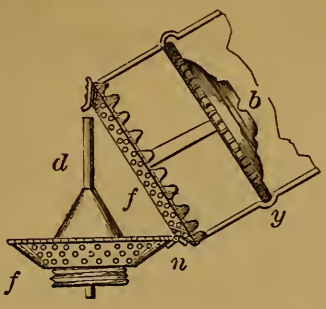
80125—S. Bowers—*Broiler.*



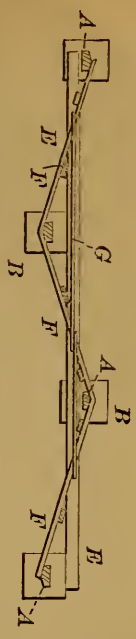
80129—A. J. Brown—*Washstand and Water Closet.*



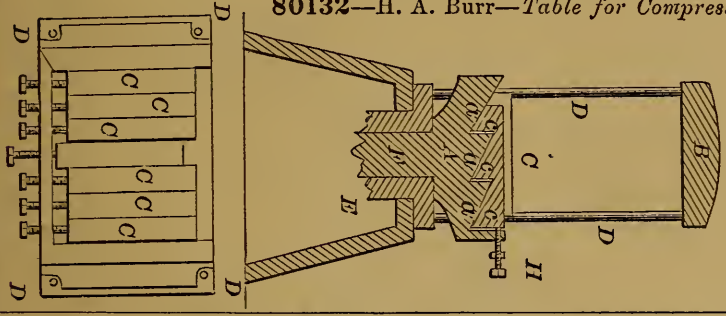
80133—C. W. Cahoon—*Lamp.*



80131—T. L. Burk—*Fence.*

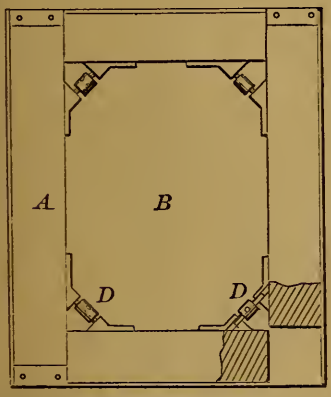


80132—H. A. Burr—*Table for Compresses.*

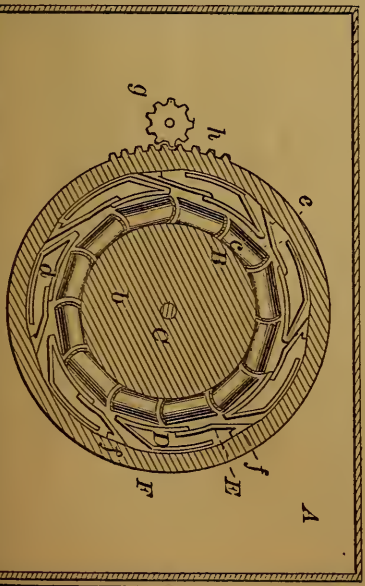


80130—G. M. Bull—*Tobacco Box.*

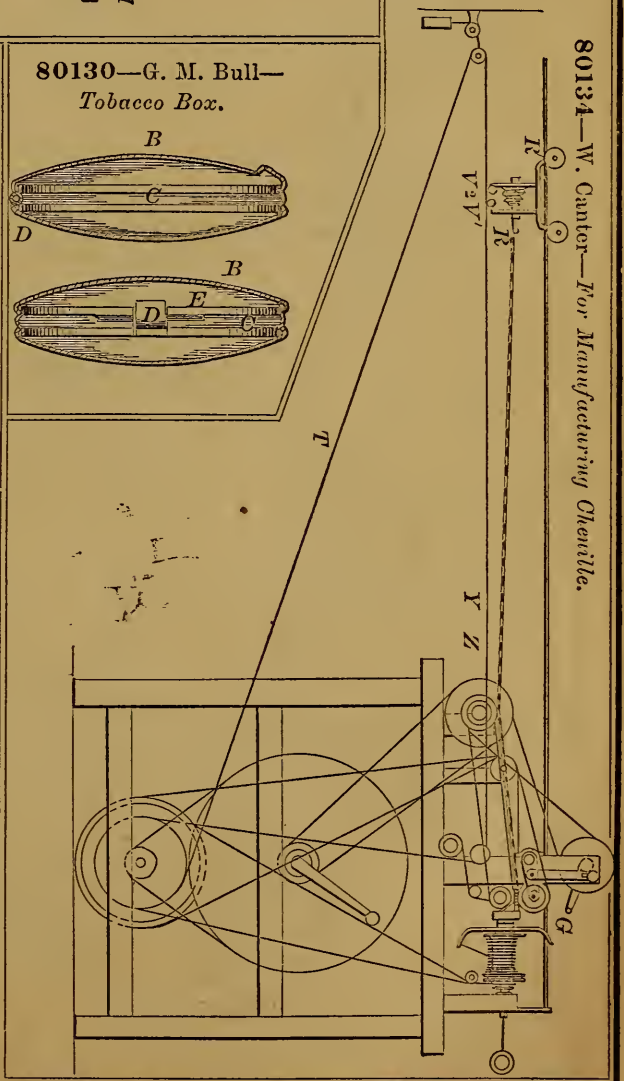
80135—J. F. Carroll—*Artists' Stretching Frame.*



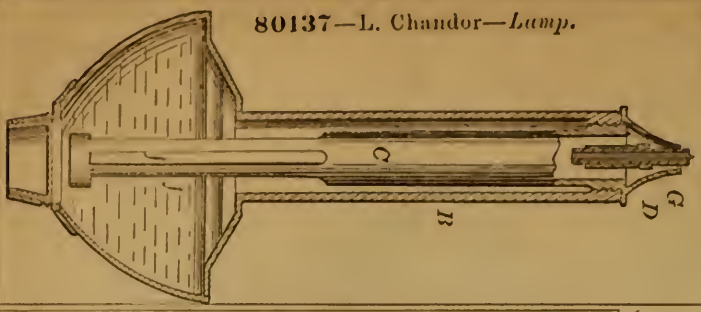
80136—D. W. Case—*Water Wheel.*



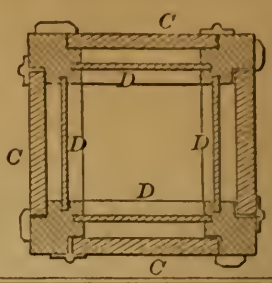
80134—W. Cantor—*For Manufacturing Chenille.*



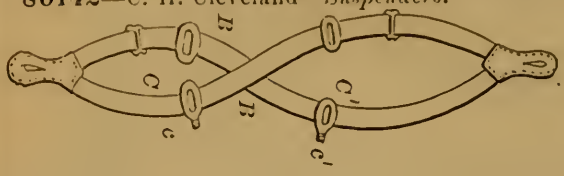
80137—L. Chandor—*Lamp.*



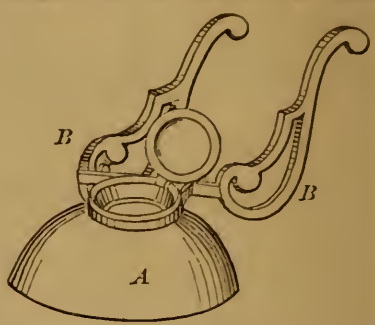
80138—J. Chase—*Beehive.*



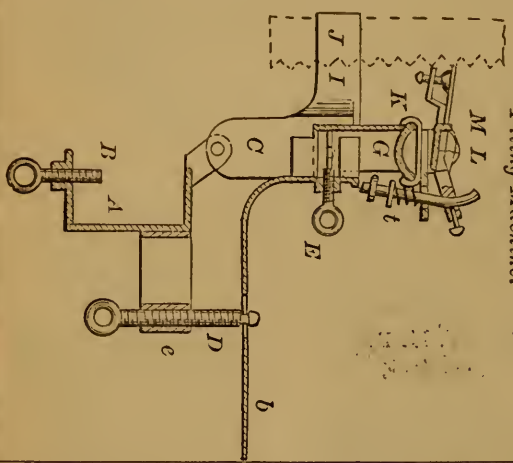
80142—C. H. Cleveland—*Suspenders.*



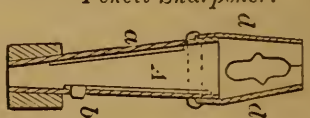
80140—W. E. Clarke—*Pen Rack.*



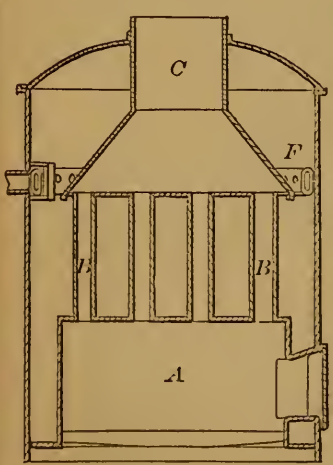
80141—H. Clendenen—*Saw Filing Machine.*



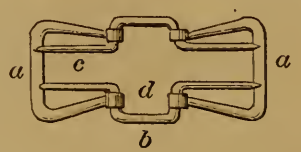
80145—J. L. & D. H. Coles—*Pencil Sharpener.*



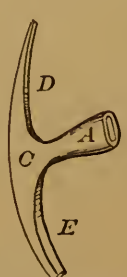
80144—H. S. Cole—*Steam Generator.*



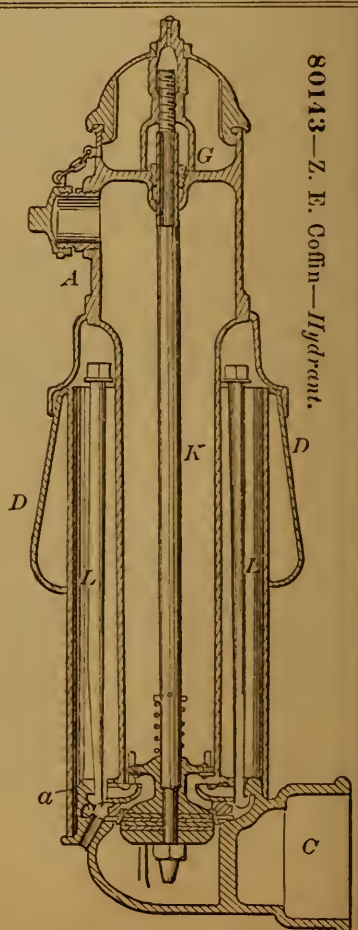
80139—E. W. Clark—*Double Buckle.*



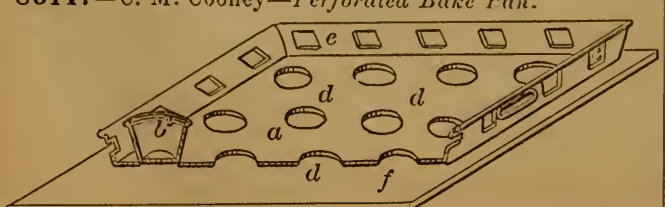
80146—J. C. Conklin—*Pickaxe.*



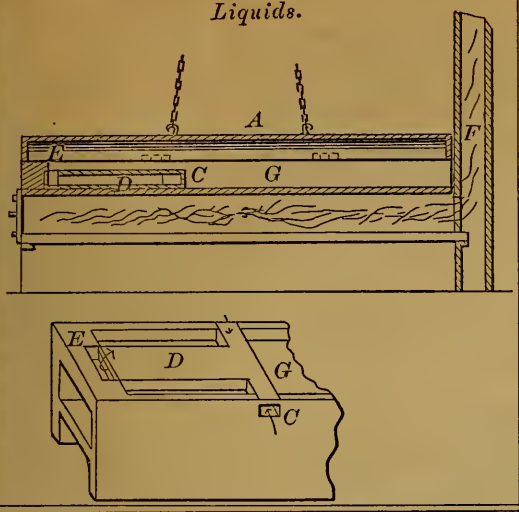
80143—Z. E. Coffin—*Hydrant.*



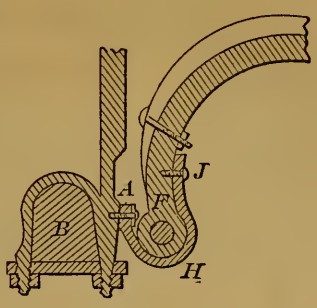
80147—C. M. Cooney—*Perforated Bake Pan.*



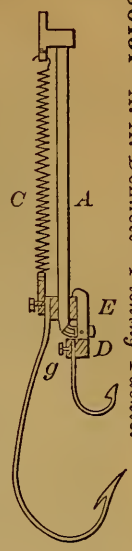
80149—J. P. Drake—*For Evaporating Liquids.*



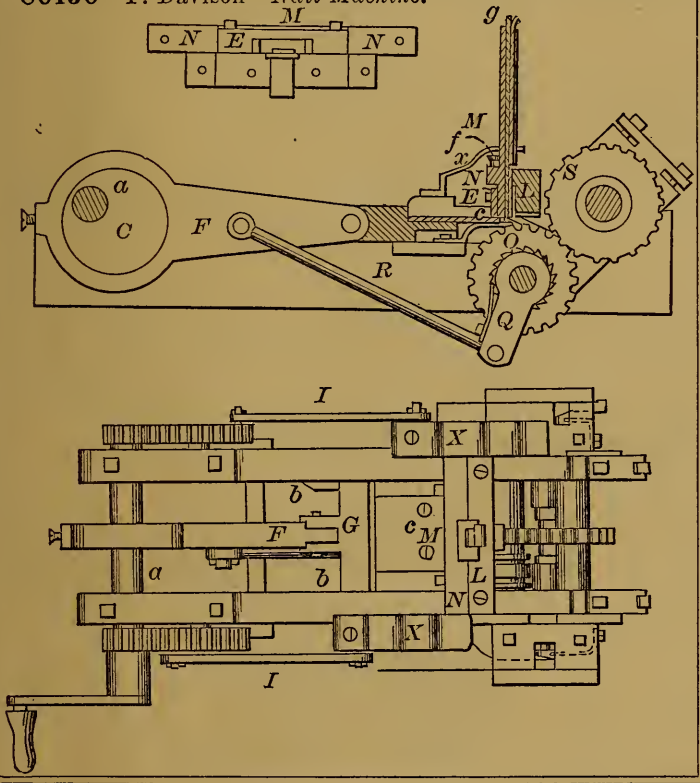
80152—L. Derby—*Thill Coupling.*



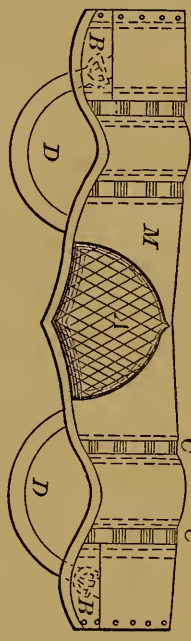
80151—A. A. Dennett—*Fishing Tackle.*



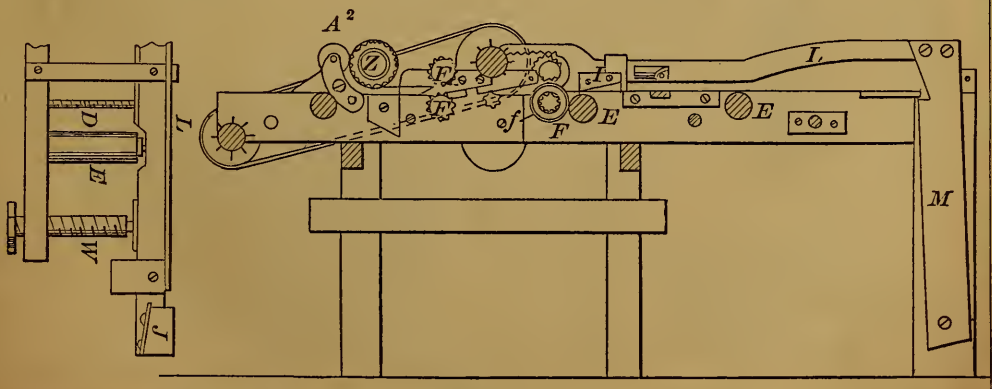
80150—F. Davison—*Nail Machine.*



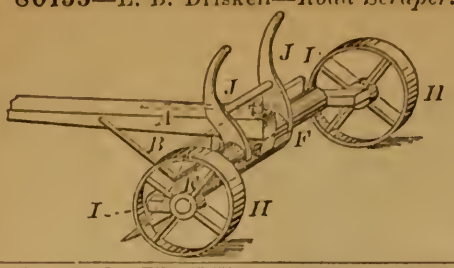
80153—A. Dickson—*Uterine Supporter.*



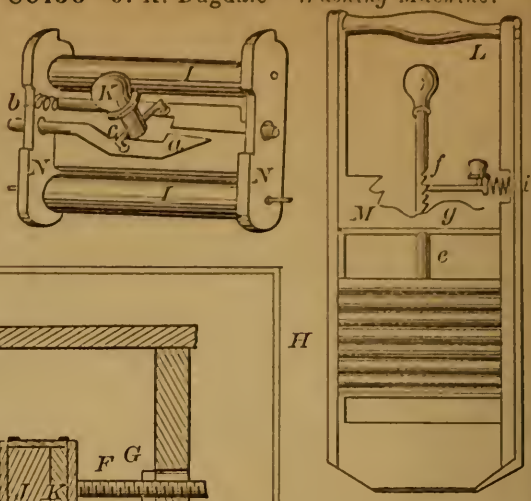
80154—J. Dobbins—*For Cutting Hoops from Barrels.*



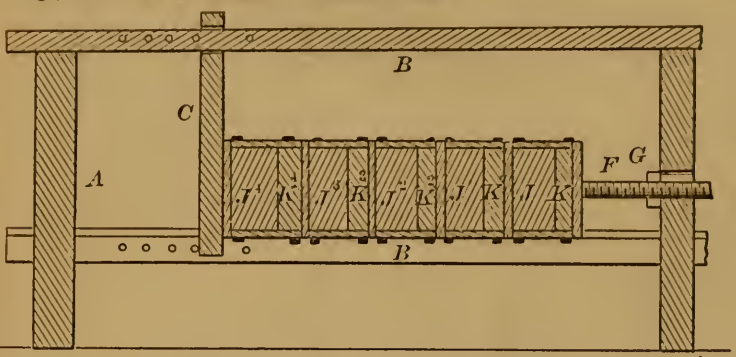
80155—E. B. Driskell—*Road Scraper.*



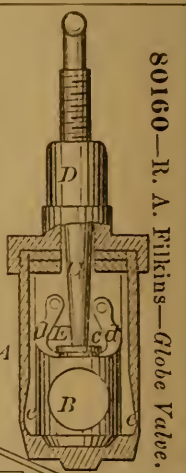
80156—J. K. Dugdale—*Washing Machine.*



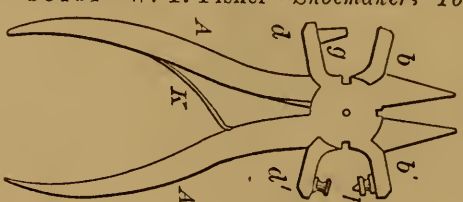
80158—M. B. Fraser—*Cheese Press.*



80160—R. A. Filkins—*Globe Valve.*

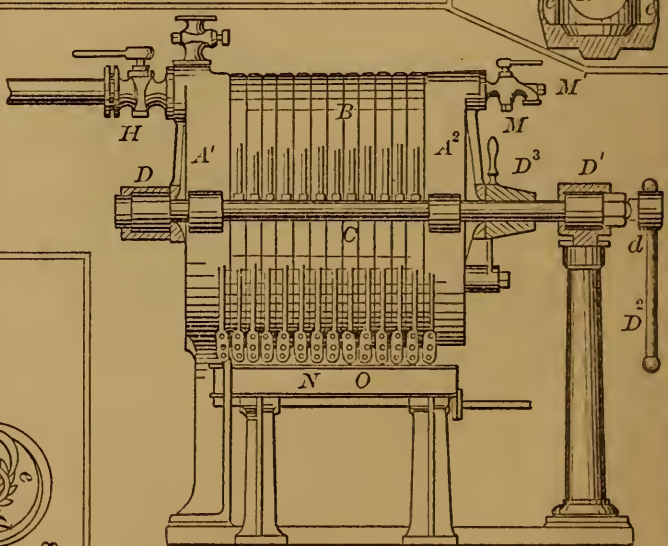


80161—W. T. Fisher—*Shoemakers' Tool.*

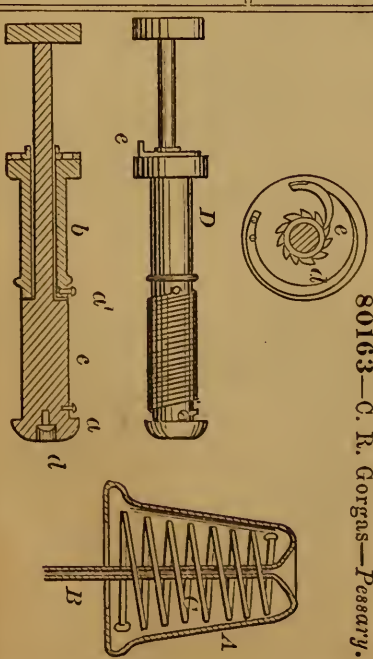


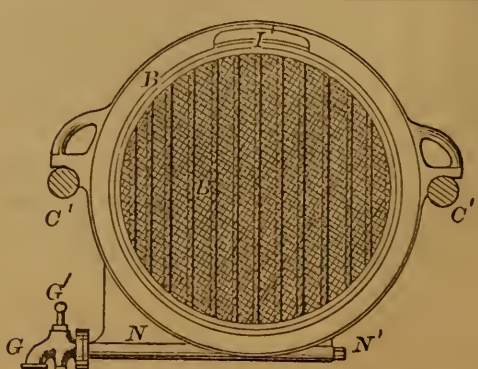
80159—A. Faller—*Lounge, Bureau and Table.*

80157—Du Rieux & Roettger—*Cylindrical Filtering Press.*

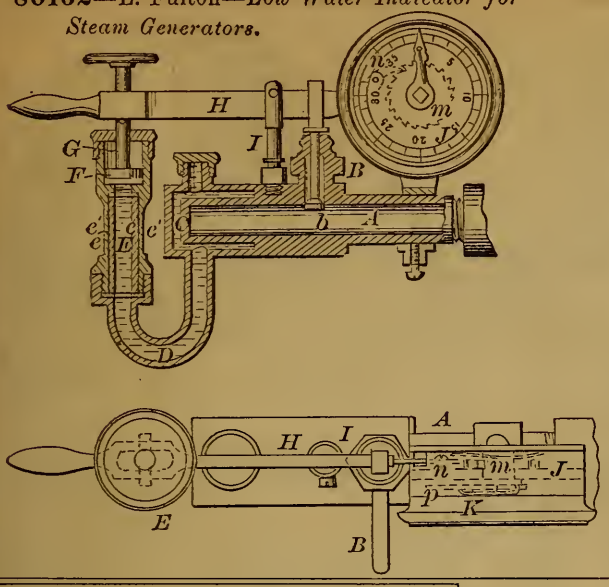


80163—C. R. Gorgas—*Pessary.*

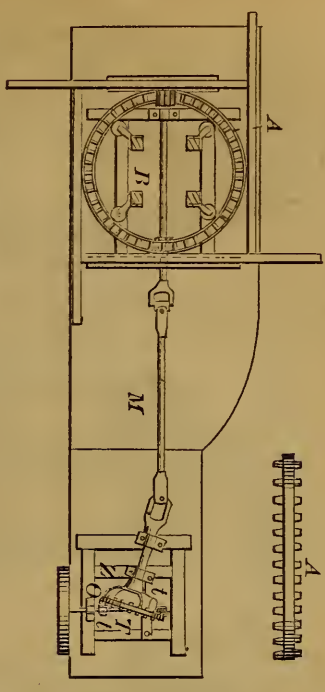




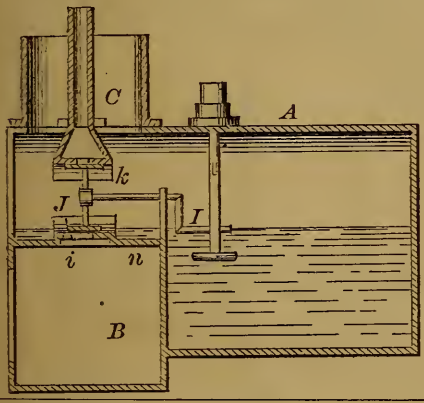
80162—L. Fulton—*Low Water Indicator for Steam Generators.*



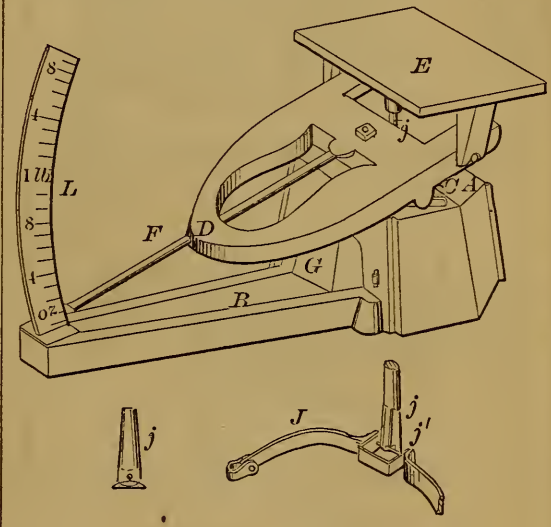
80164—M. G. Groff—*Horse Power.*



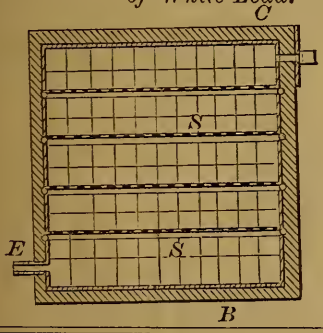
80165—G. Guy—*Steam Generator.*



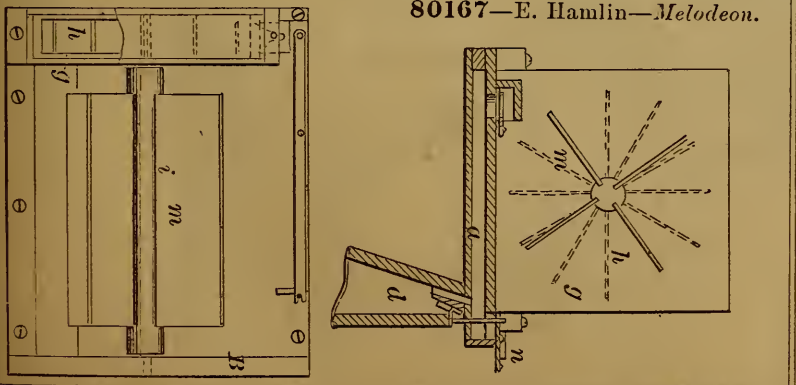
80169—S. Harris—*Weighing Scales.*



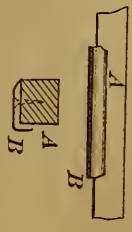
80168—H. S. Hannen—*Manufacture of White Lead.*



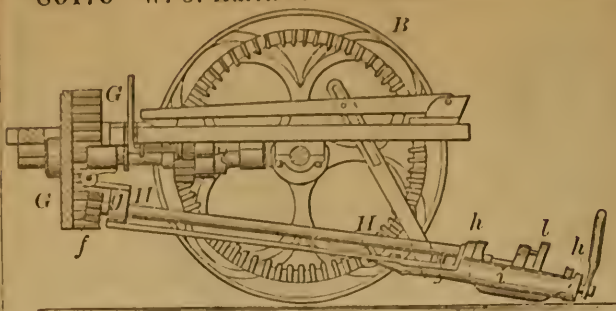
80167—E. Hamlin—*Melodeon.*



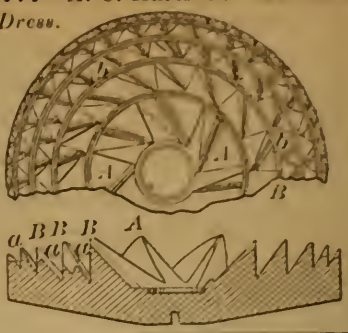
80166—E. Hackett—*Chafe Iron.*



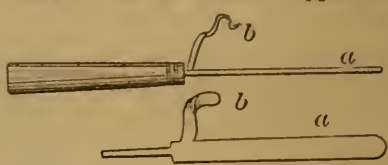
80170—W. O. Harrison—*Harvester.*



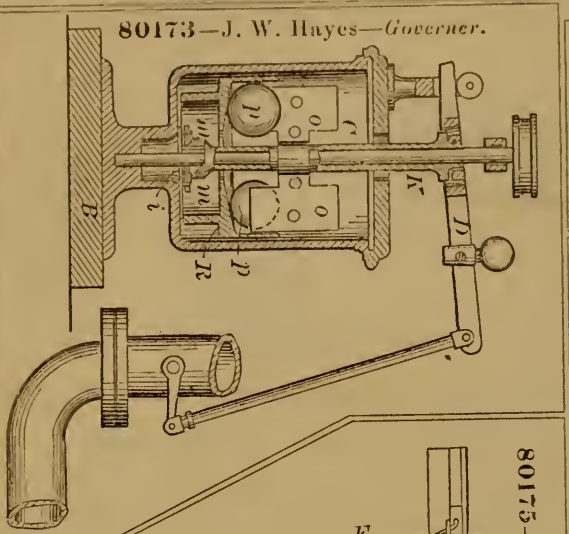
80171—A. C. Hartsock—*Mill Stone Dress.*



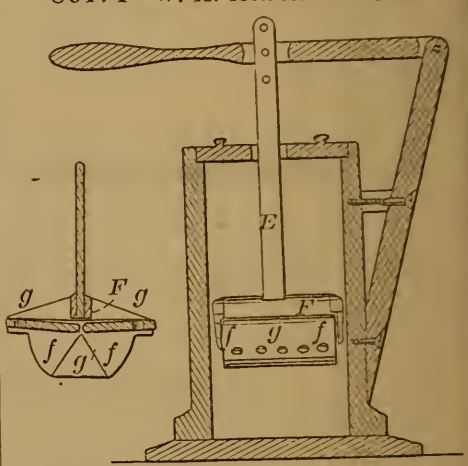
80172—M. M. Hatch—*Apple Corer.*



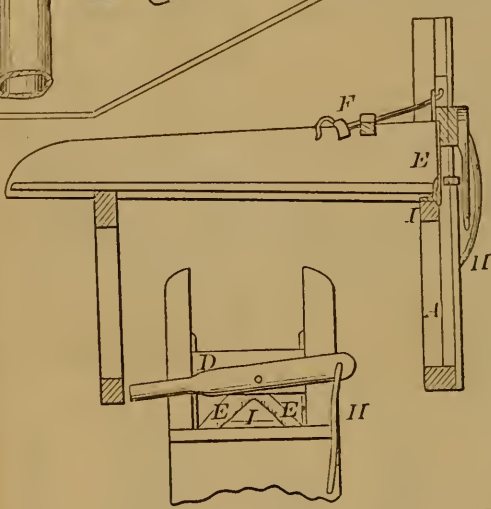
80173—J. W. Hayes—*Governer.*



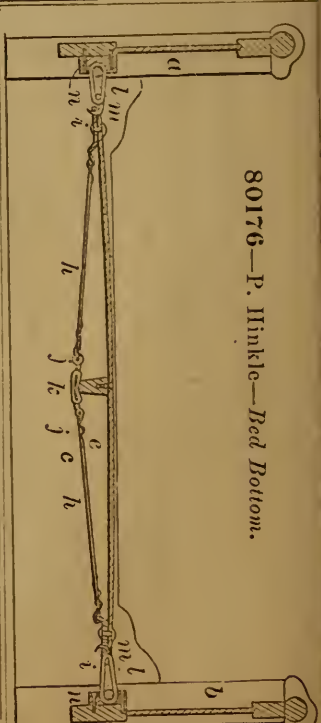
80174—W. H. Henderson—*Churn.*



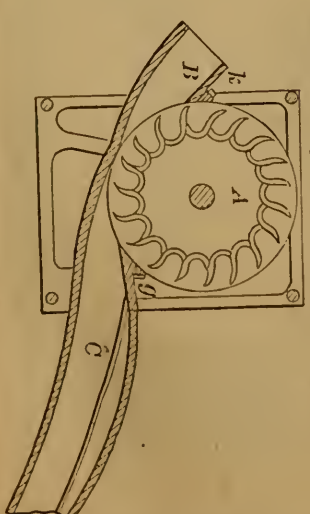
80175—Hiles & Danner—*Straw Cutter.*



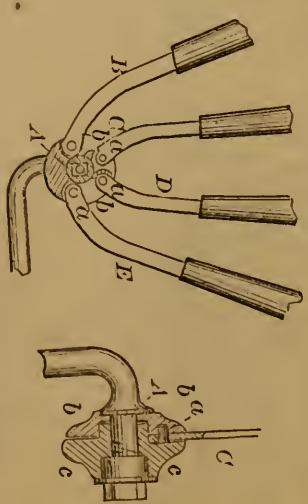
80176—P. Hinkle—*Bed Bottom.*



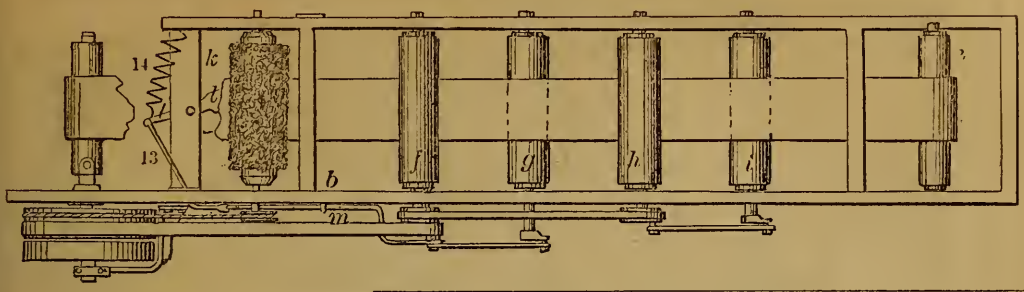
80178—Hoyt & Denio—*Water Wheel.*

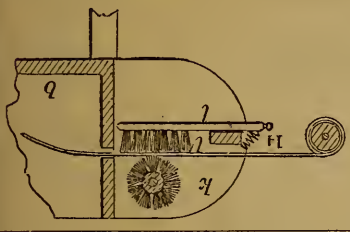


80180—W. Horrocks—*Attaching Carriage Tops.*

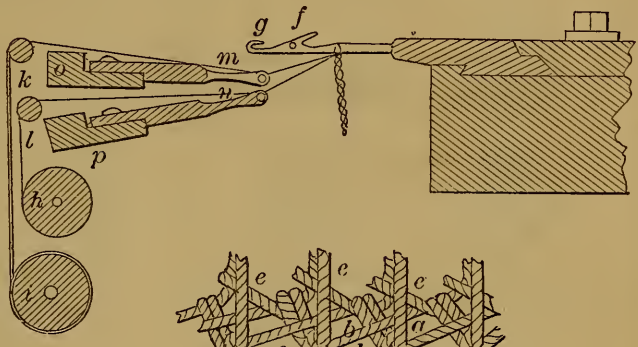


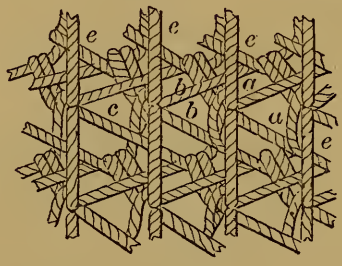
80179—C. E. L. Holmes—*For Drying and Scouring Sheet Metal.*



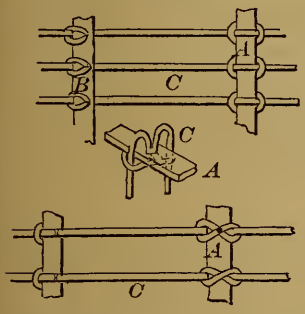


80183—G. Jelley—*Knitted Fabric.*

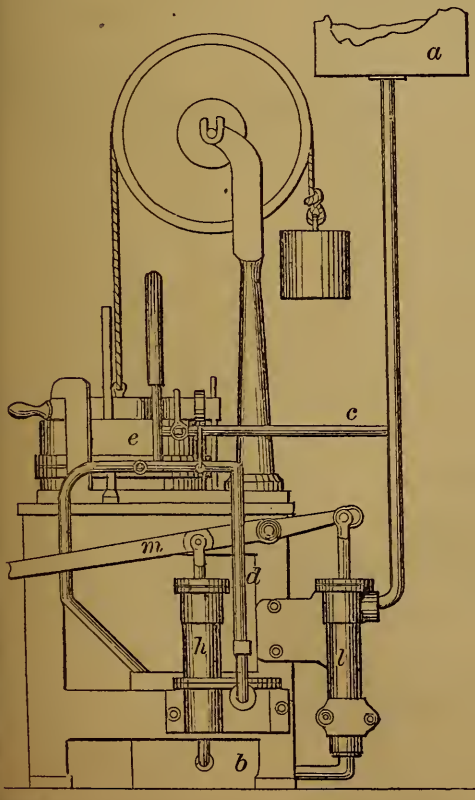




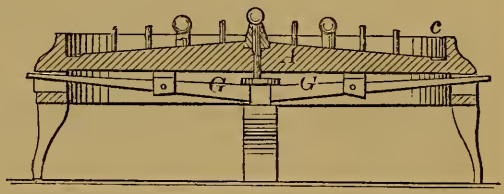
80182—D. W. Hurst—*Fly Net for Horses.*

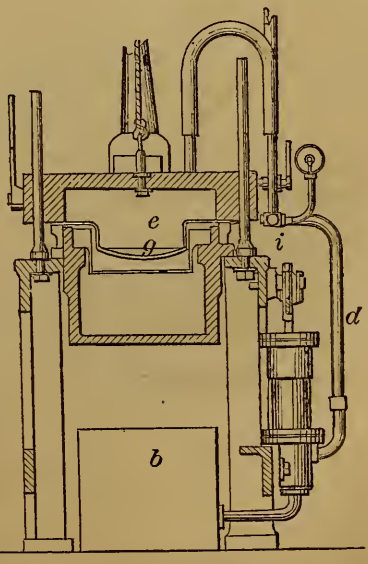


80181—S. Howard—*For Pressing Hats.*

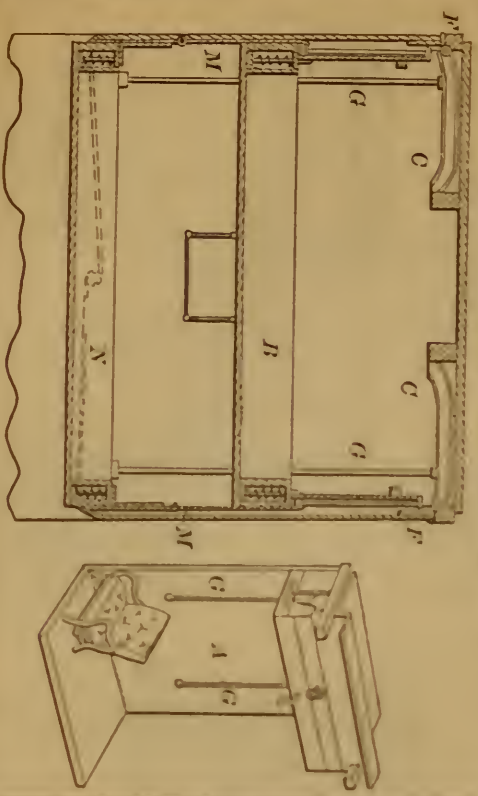


80185—W. Keil—*Game Table.*

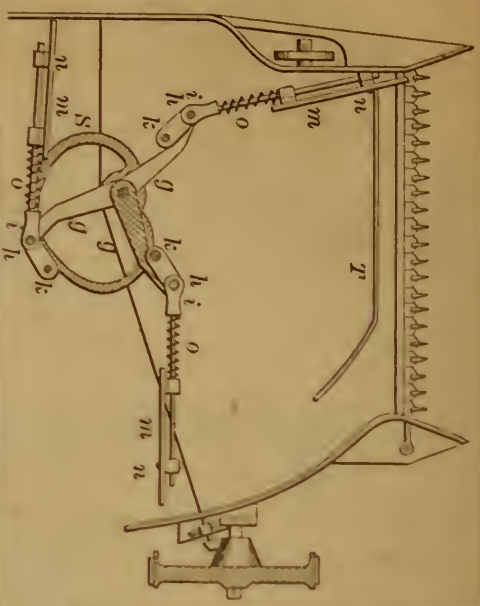




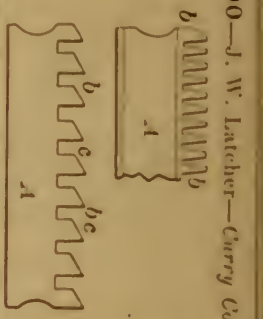
80184—A. Judson—*Sleeping Berth for Railroad Cars.*



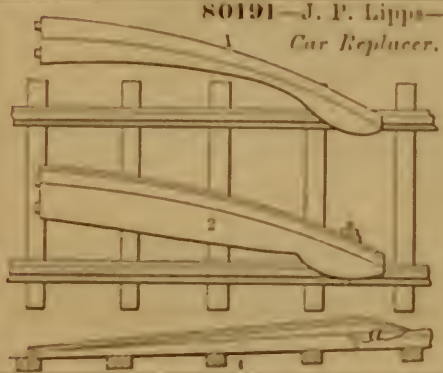
80188—I. Lancaster—*Harvester Rake.*



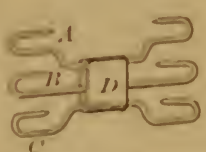
80190—J. W. Latcher—*Curry Comb.*



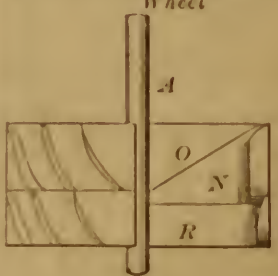
80191—J. P. Lipps—*Car Replacer.*



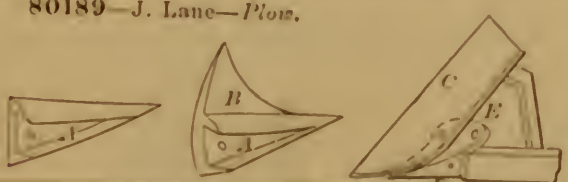
80187—W. Knowles—*Shawl Pin.*



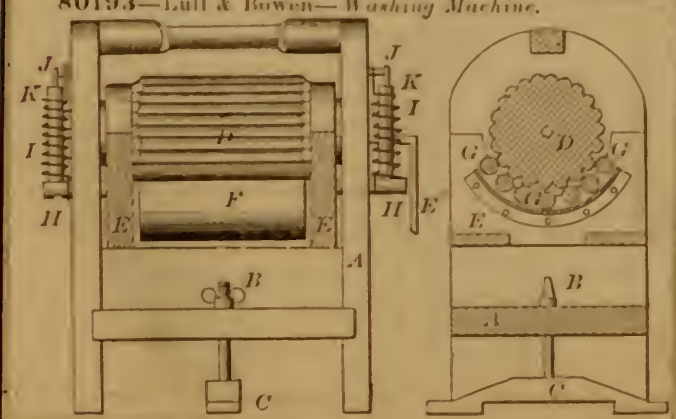
80186—W. Kennedy—*Water Wheel*



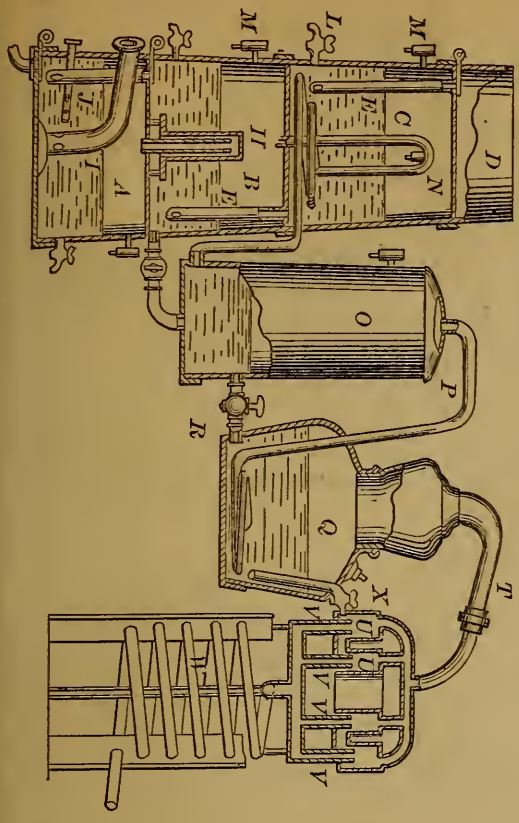
80189—J. Lane—*Plow.*



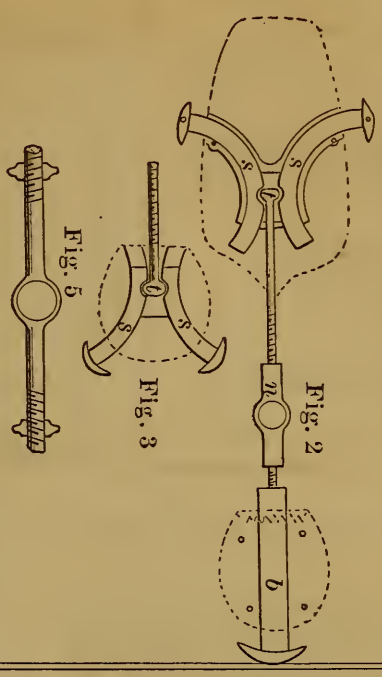
80193—Lull & Bowen—*Washing Machine.*



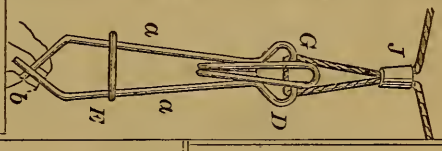
80192—H. C. Lloyd—*Still.*



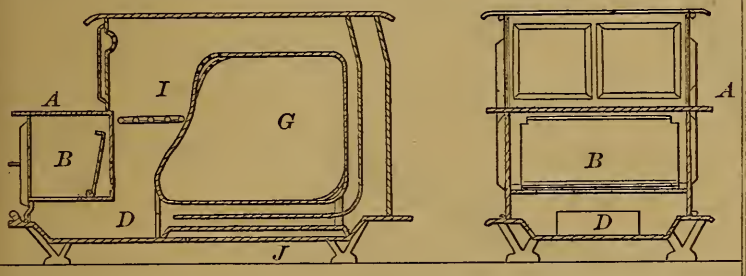
80195—E. C. Mayloy—*Skate Fastening.*



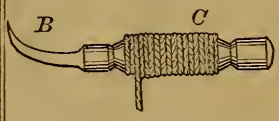
80196—G. McFadden—*Satchel Holder.*



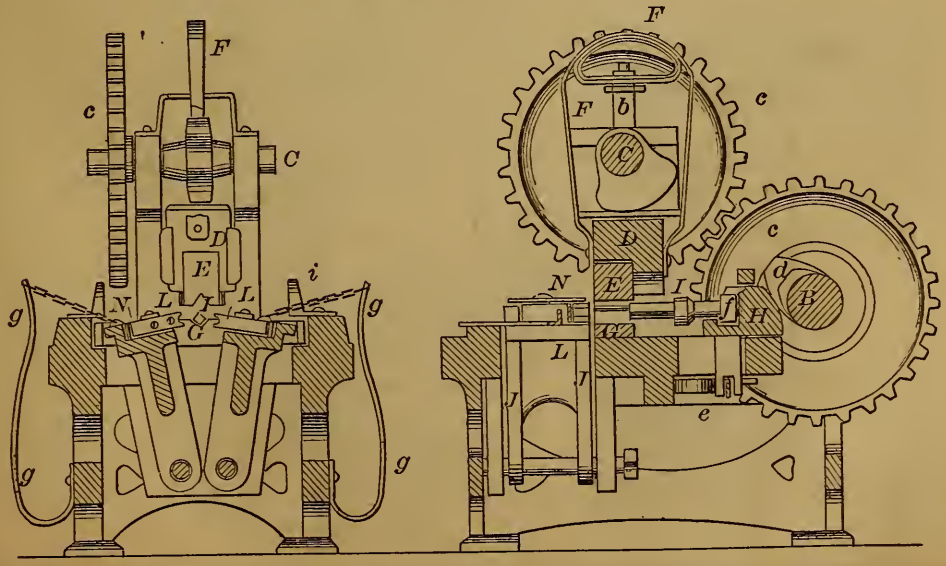
80194—J. Magee—*Cooking Stove.*



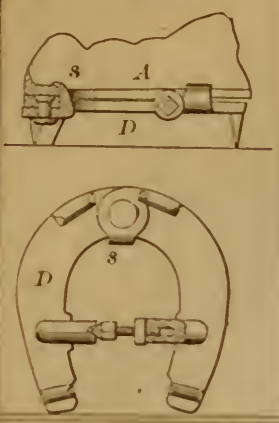
80197—L. H. Mealey—*Paper Sack Knife.*



80198—W. Melvell—*For Heading Bolts.*

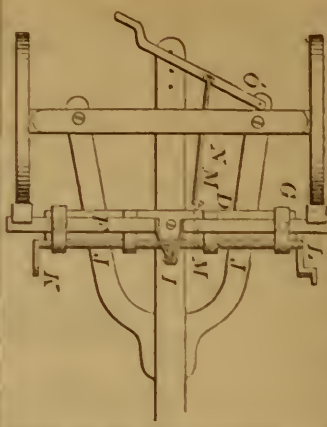


80199—G. B. Milligan—*Horse Shoe.*

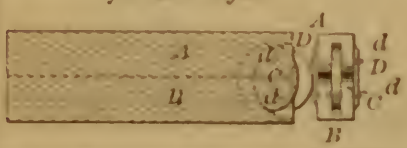


80200—A. L. Mora—*Bureau Trunk.*

80201—Morgan & Terrell—*Wagon Brake.*

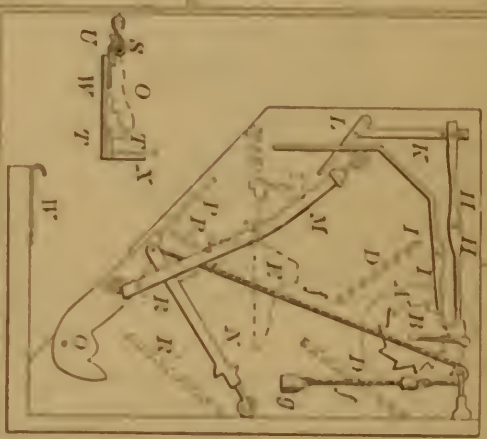


80202—F. B. Morse—*Stump Joint for Carriages.*

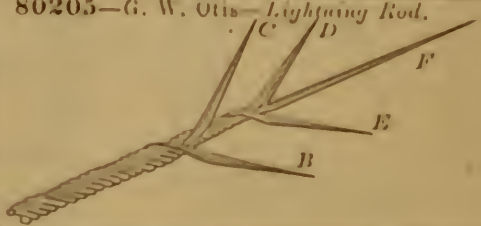


80203—O. Morse—*Coal Scuttle.*

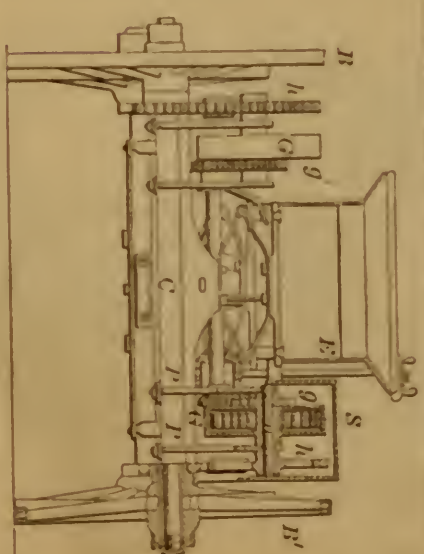
80204—C. Muller—*Cigar Machine.*

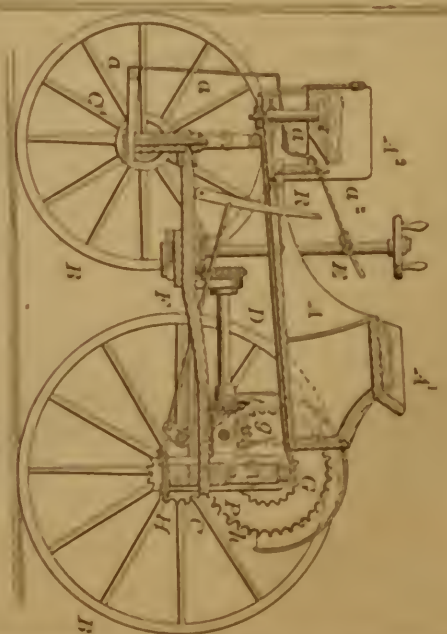


80205—G. W. Otis—*Lightning Rod.*

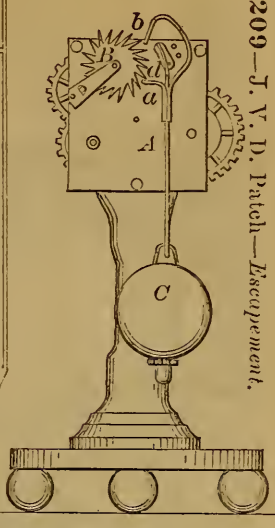


80206—O. D. Padrick—*Self-Propelling Vehicle.*

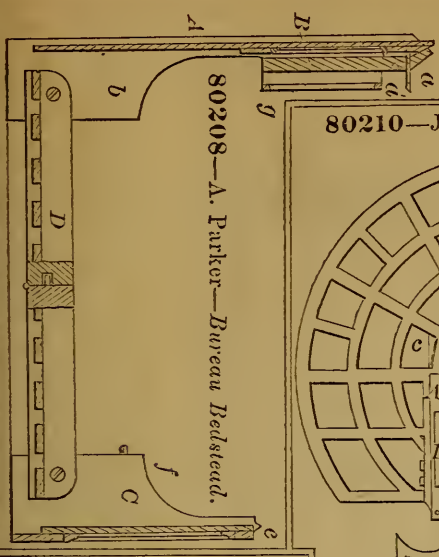




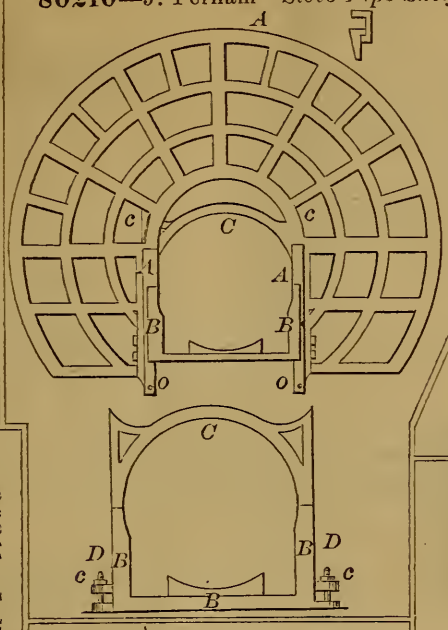
80209—J. V. D. Patch—*Escapement.*



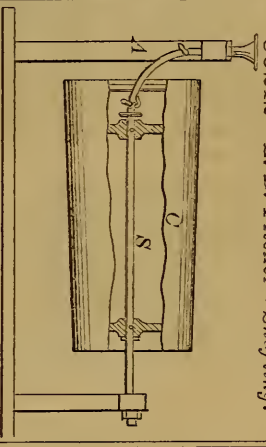
80208—A. Parker—*Bureau Bedstead.*



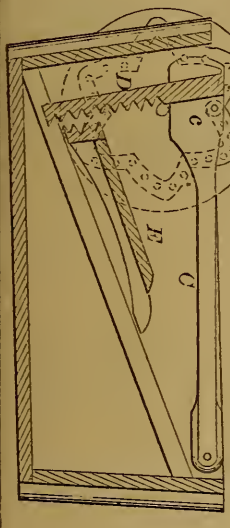
80210—J. Perham—*Stove Pipe Shelf.*



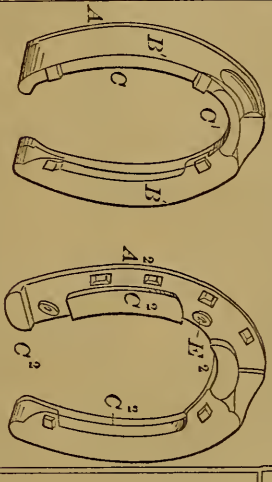
80212—L. B. Pitcher—*Shafting.*



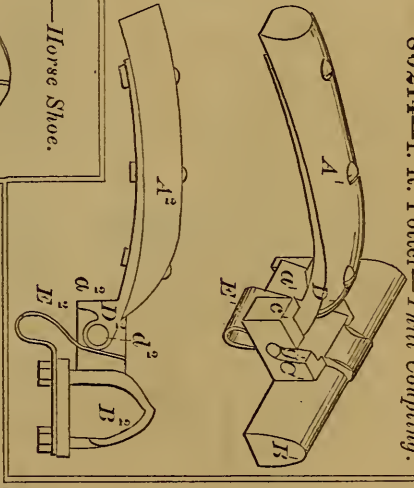
80211—J. Phillips, Jr.—*Washing Machine.*



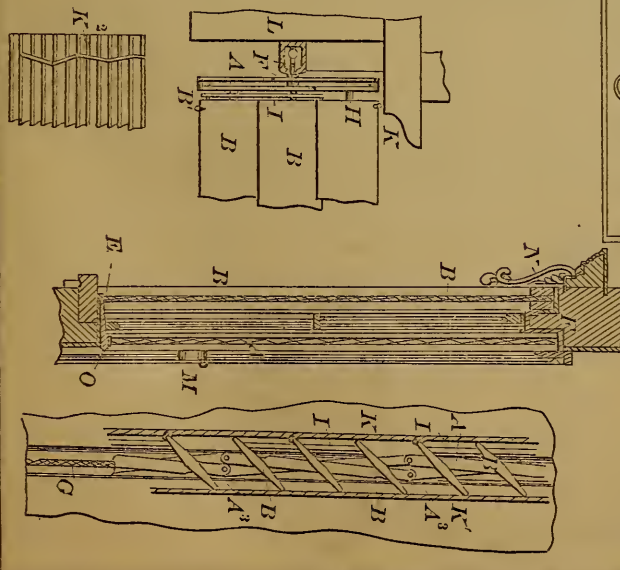
80213—I. R. Potter—*Horse Shoe.*



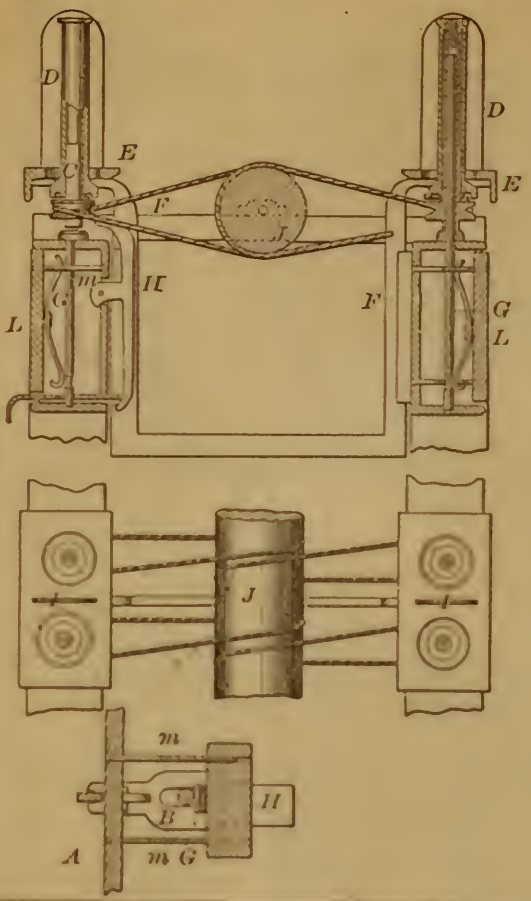
80214—I. R. Potter—*Thill Coupling.*



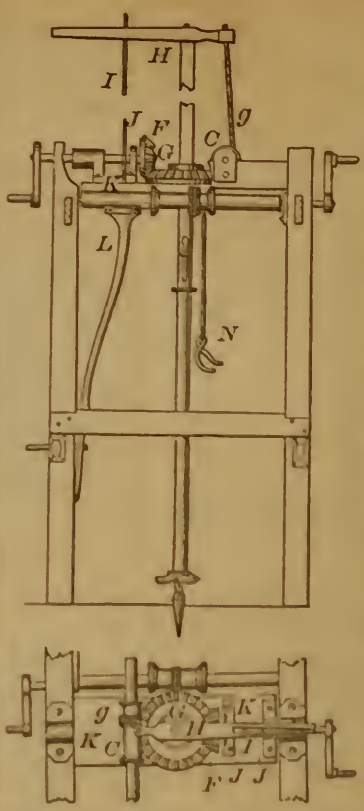
80215—N. Poulson—*Movable Window Blind.*



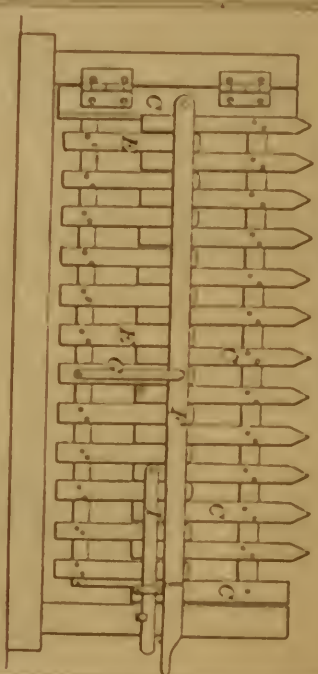
80216—J. M., L. & E. Pusey—*Spinning Machine.*



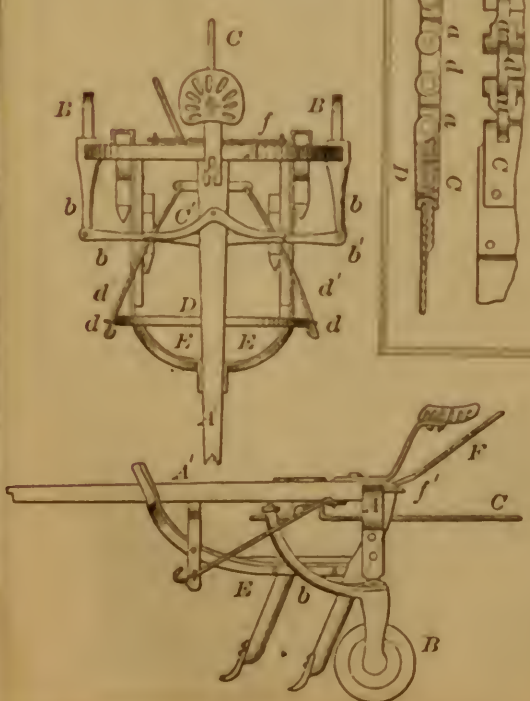
80217—J. E. Race—*Earth Boring Machine.*



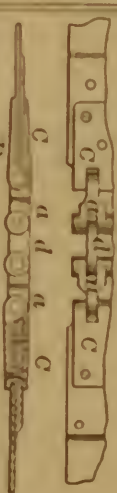
80220—H. K. Raub—*Gate.*



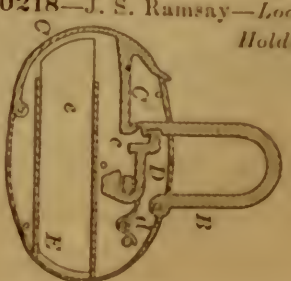
80221—S. J. Reed—*Plow.*



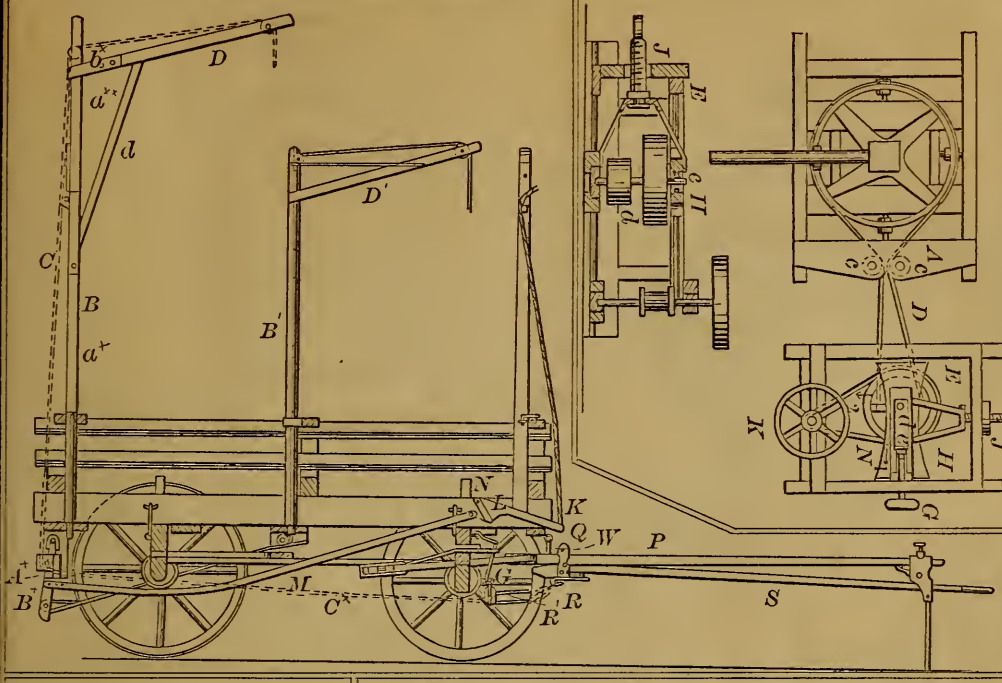
80219—B. D. Randleman—*Clasp for Joining Belts.*



80218—J. S. Ramsay—*Lock Label Holder.*

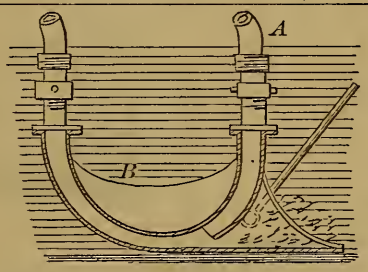


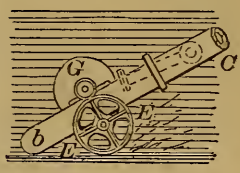
80222—F. M. Reynolds—*Hay Loader.*



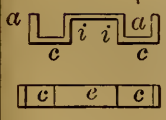
80228—A. Smith—*Horse Power.*

80224—E. Ripley—*Button Fastener.*

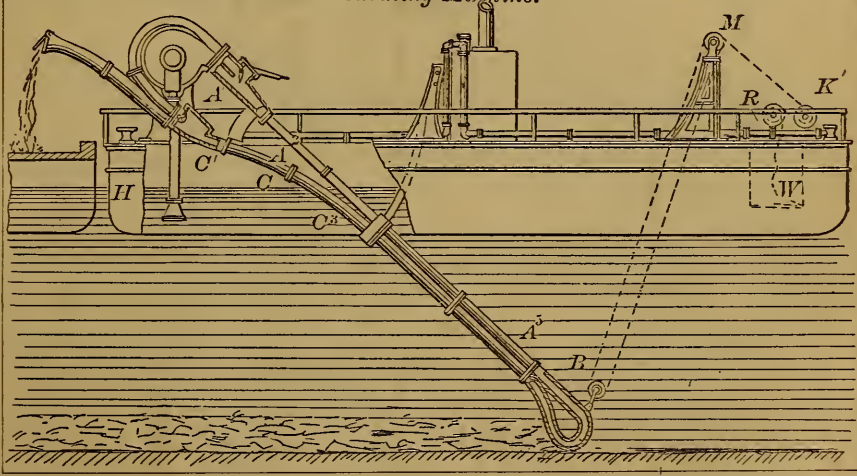




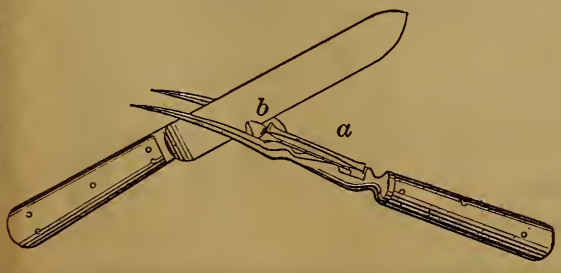
80227—E. F. Sherman—*Belt Hook.*



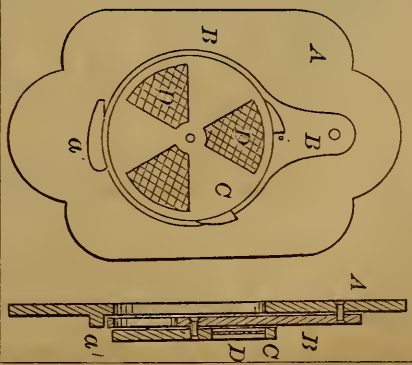
80225—J. Robertson—*Excavating Machine.*



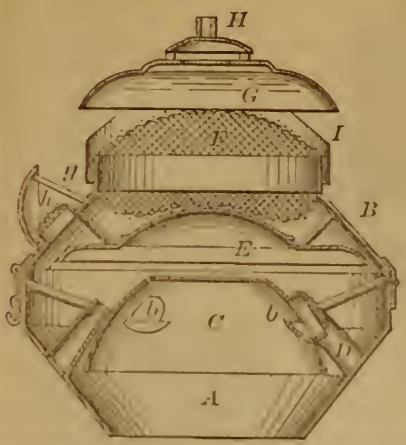
80226—E. S. Scofield—*Carving Fork and Knife Sharpener.*



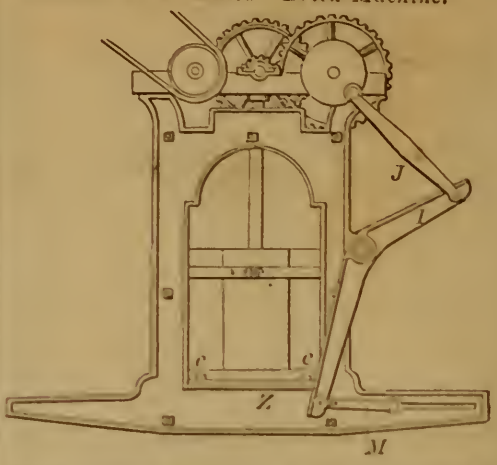
80223—J. C. Rhodes—*Damper.*



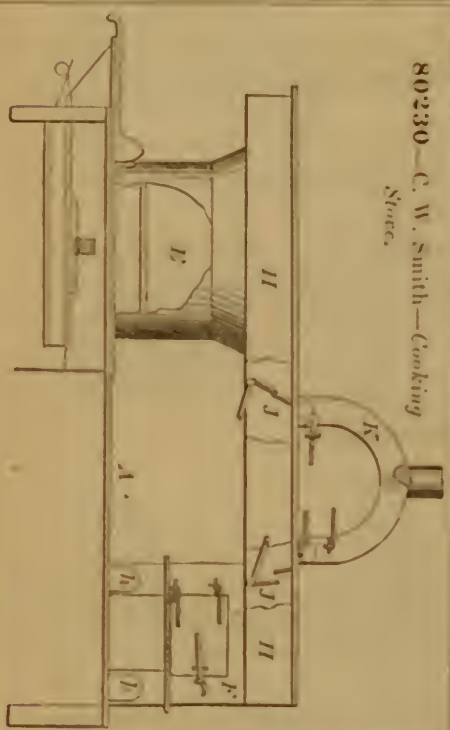
80229—A. F. Smith—*Spark Arrester.*



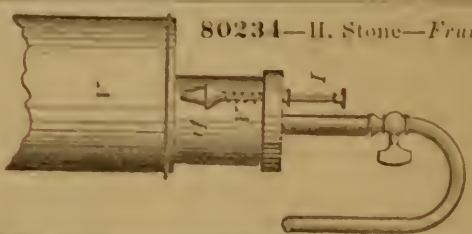
80231—F. H. Smith—*Brick Machine.*



80230—C. W. Smith—*Cooking Stove.*



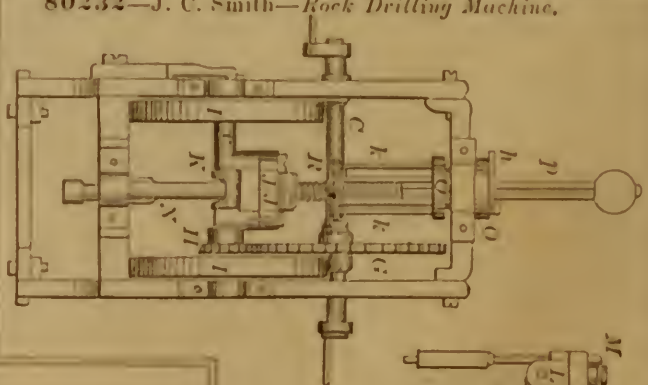
80234—H. Stone—*Fruit Jar.*

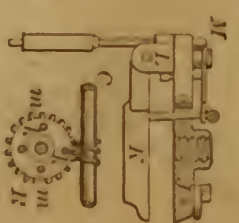


80235—Stuart & Wemyss—*Stove Plate.*

80233—J. C. Smith—*Stove Grate.*

80232—J. C. Smith—*Rock Drilling Machine.*

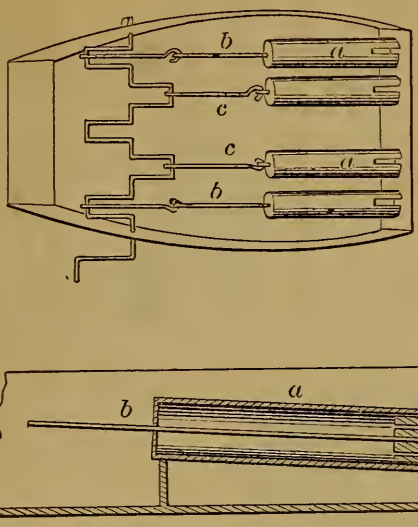




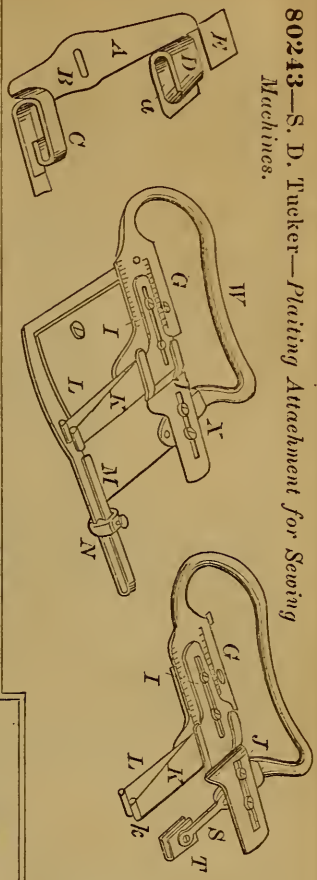
80237—G. C. Taft—*Wrench.*

80238—A. L. Taylor—*Cutlery.*

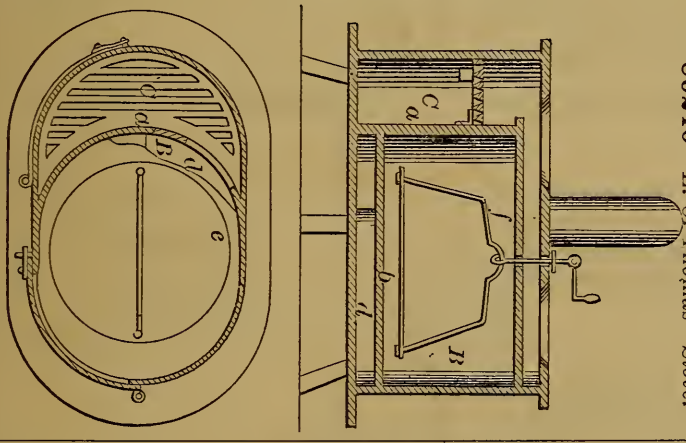
80239—O. Tenny—*Propelling Vessels.*



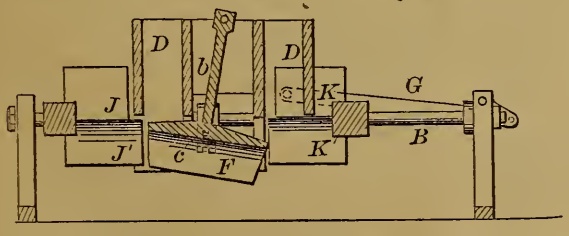
80243—S. D. Tucker—*Plaiting Attachment for Sewing Machines.*

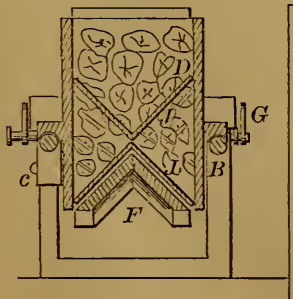


80240—E. O. Thomas—*Stove.*

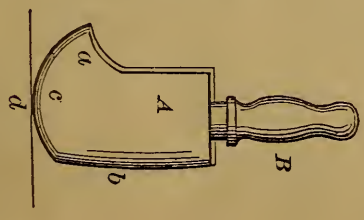


80241—L. Tilton—*Wood Splitting Machine.*

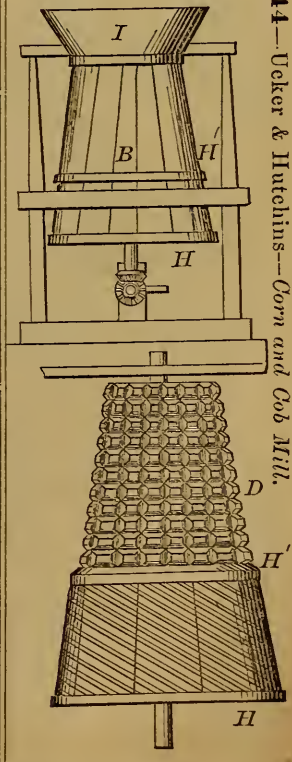




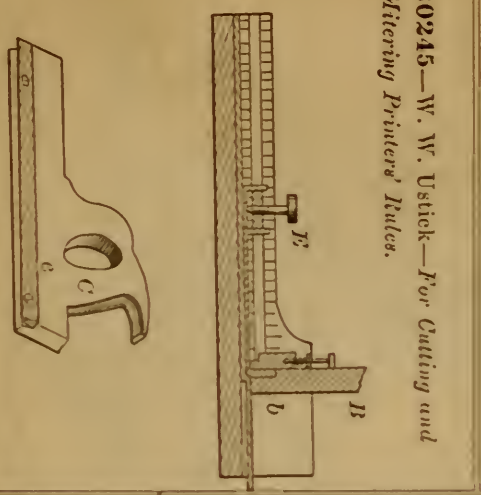
80242—S. J. Tongue—*Mincing Cleaver.*



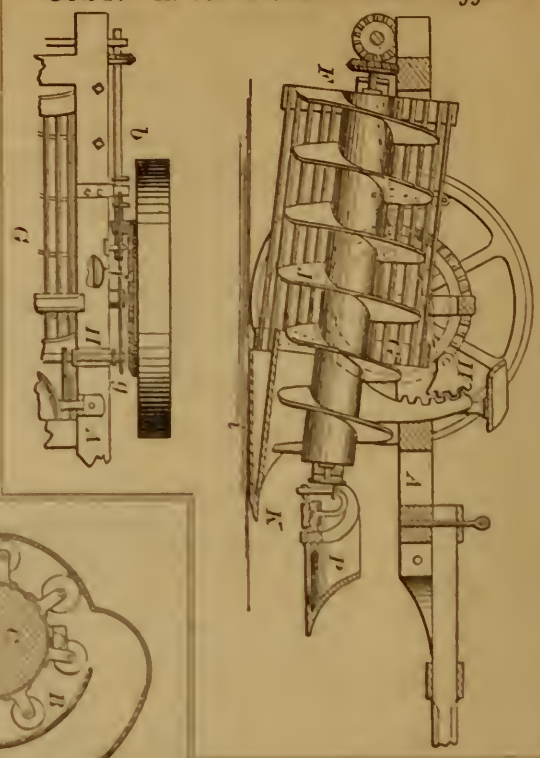
80244—Ucker & Hutchins—*Corn and Cob Mill.*



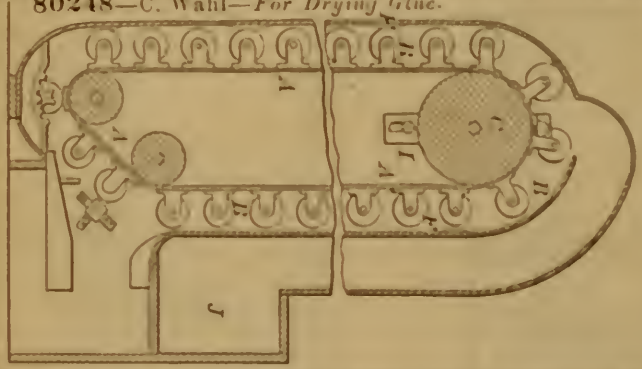
80245—W. W. Ustick—*For Cutting and Mitering Printers' Rules.*



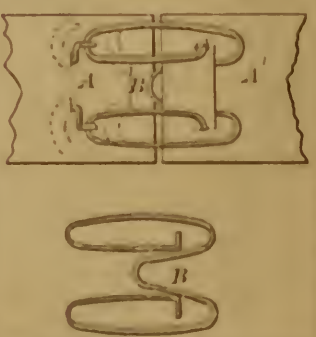
80247—A. Van Norman—*Potato Digger.*



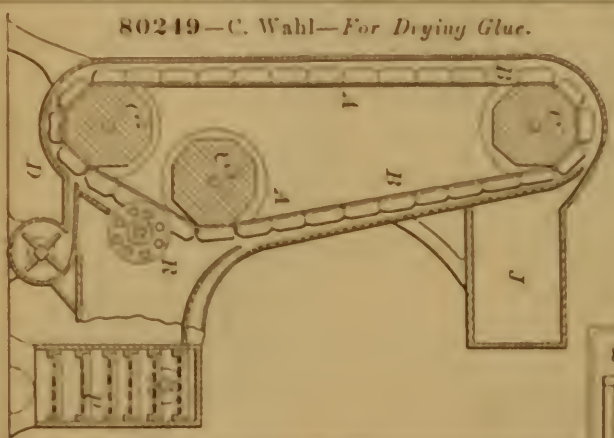
80248—C. Wahl—*For Drying Glue.*



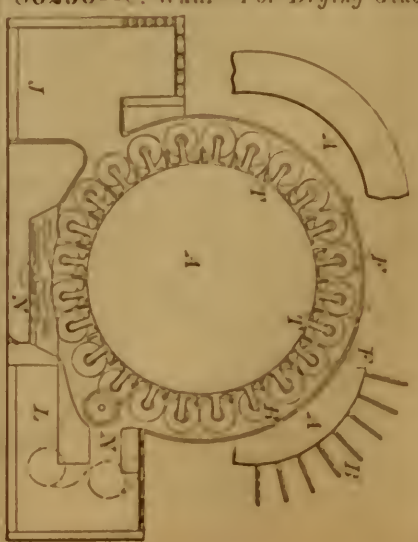
80246—A. Van Fleet—*Horse Collar Fastening.*



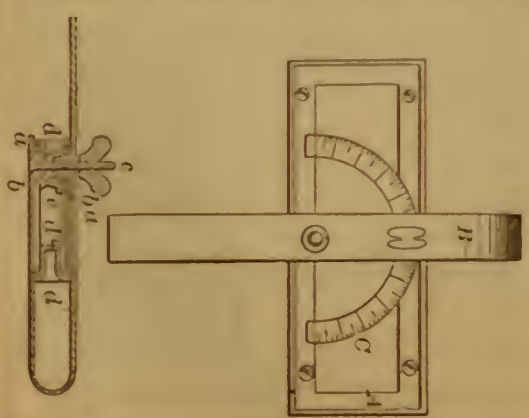
80249—C. Wahl—*For Drying Glue.*



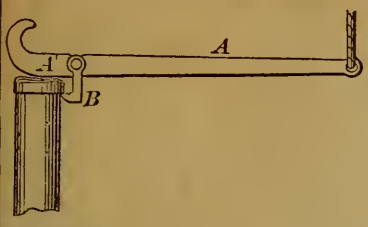
80250—C. Wahl—*For Drying Glue.*



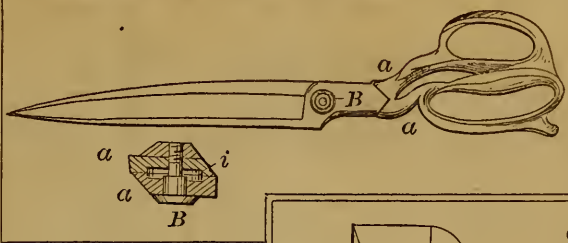
80252—A. F. Ward—*Plumb, Square and Level.*



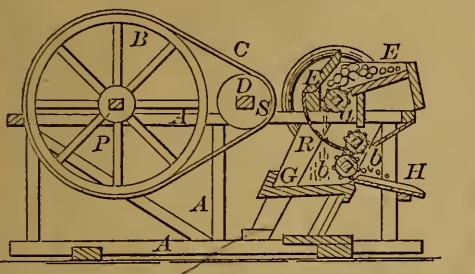
80251—H. M. Wait—*Band Puller.*

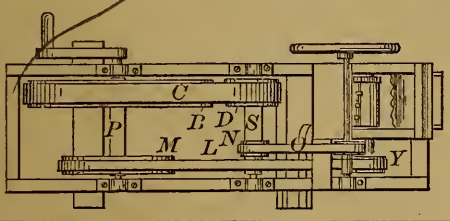


80254—H. Wendt—*Shears.*

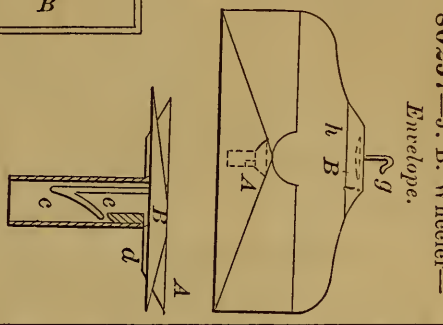


80253—E. Waugaman—*Cider Mill and Press.*

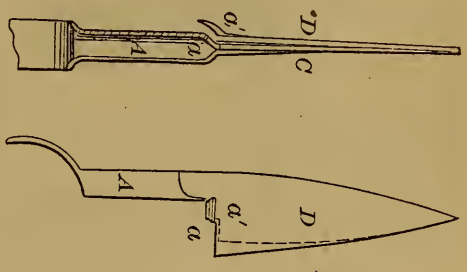




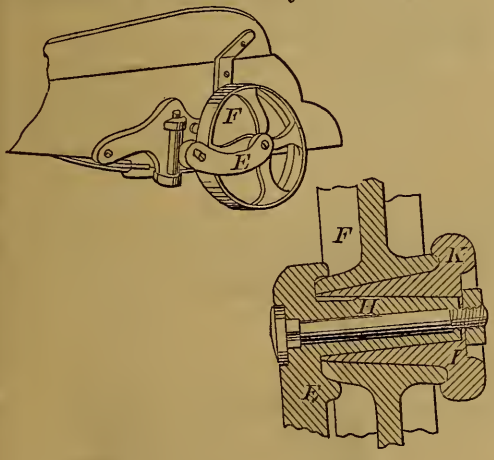
80257—J. B. Wheeler—*Envelope.*



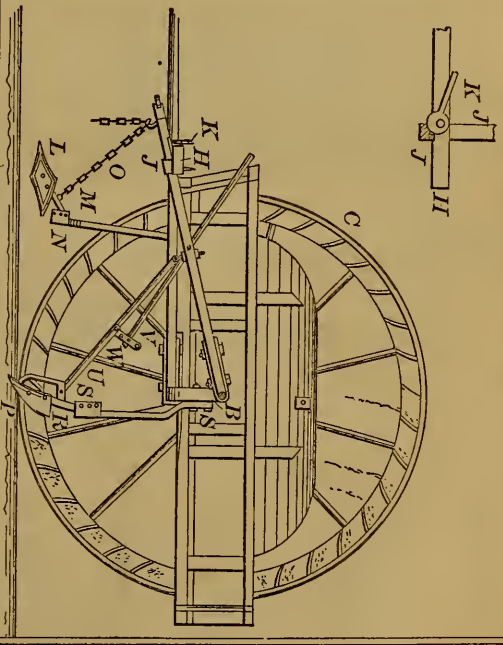
80255—H. Wendt—*Sheep Shears.*



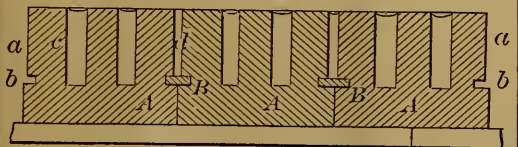
80258—W. N. Whiteley—*Harvester.*



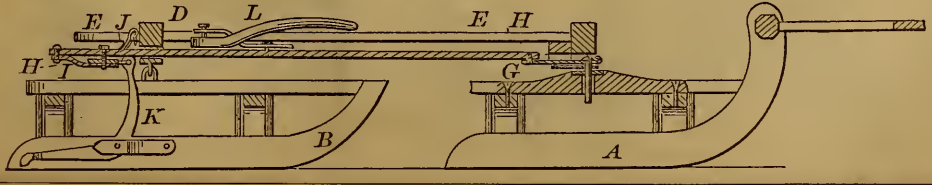
80259—G. W. Whitson—*Self-Loading Cart.*



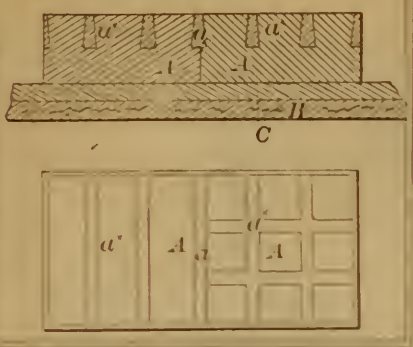
80260—C. Williams—*Pavement.*



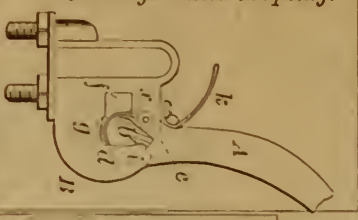
80256—B. F. Wheeler—*Sleigh Brake.*



80261—C. Williams—*Pavement.*

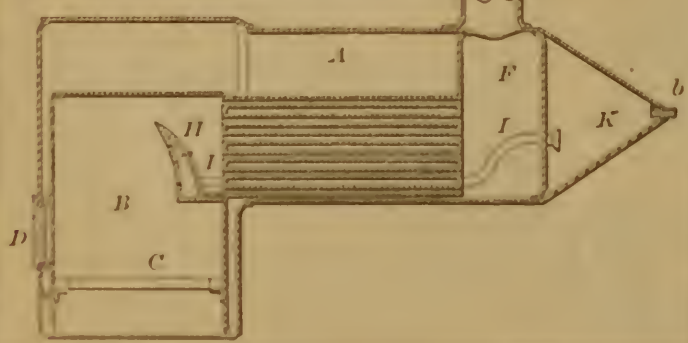


80262—H. B. Willcox—*Carriage Thill Coupling.*

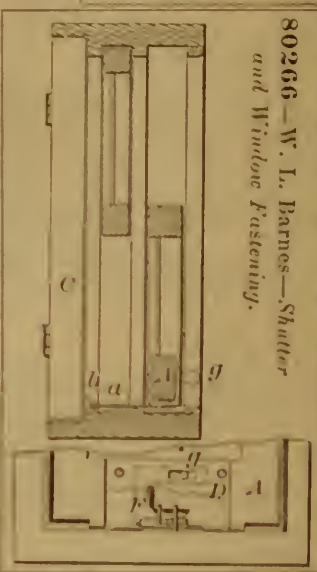


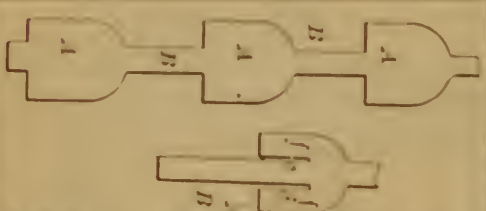
80263—H. Hayward—*Felted Fabric*

80265—J. Amory—*Steam Generator.*



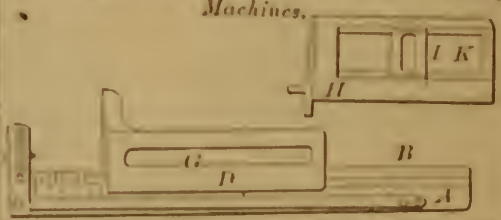
80266—W. L. Barnes—*Shutter and Window Fastening.*



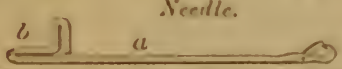


80267—H. M. Beecher—*Carriage Shaft Coupling.*

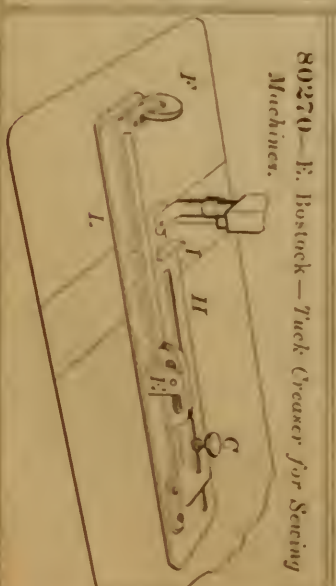
80269—E. Bostock—*Creaser for Sewing Machines.*



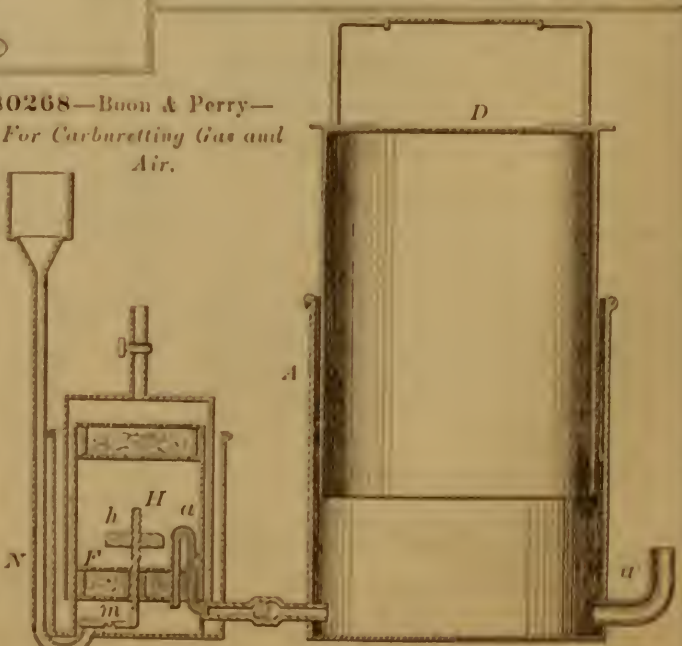
80264—R. Allen—*Knitting Machine Needle.*



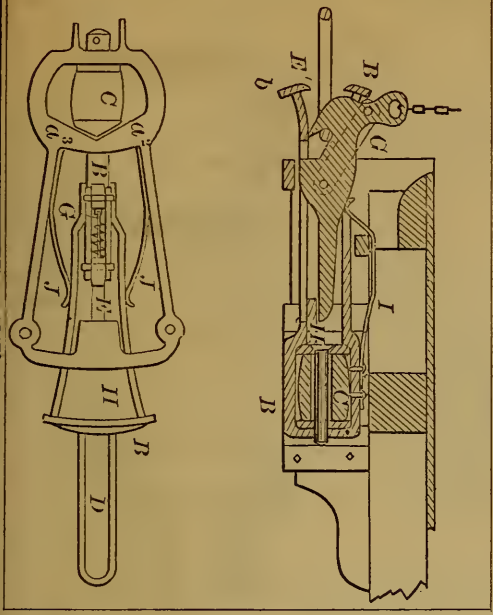
80270—E. Bostock—*Tuck Creaser for Sewing Machines.*



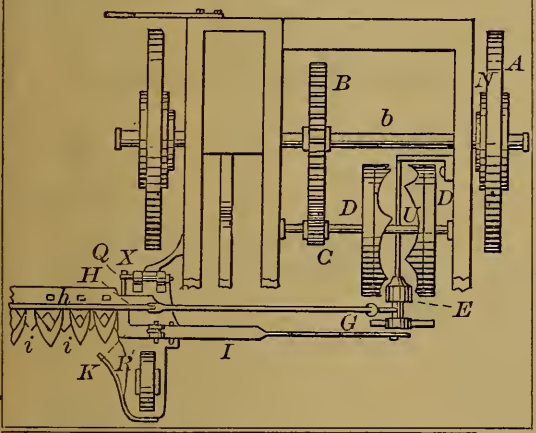
80268—Boon & Perry—*For Carburetting Gas and Air.*



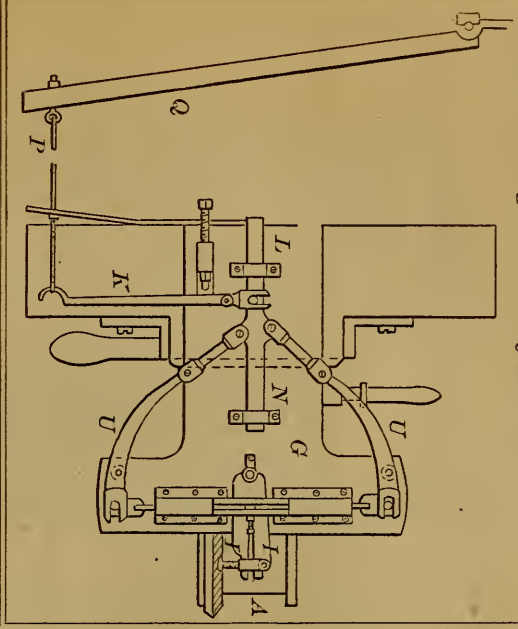
80271—C. T. Burchardt—*Car Coupling.*



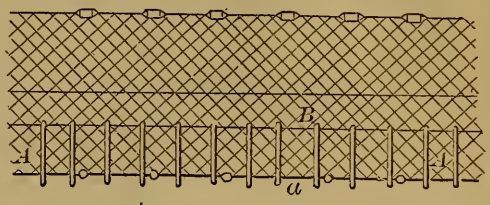
80272—H. K. Burnett—*Harvester.*



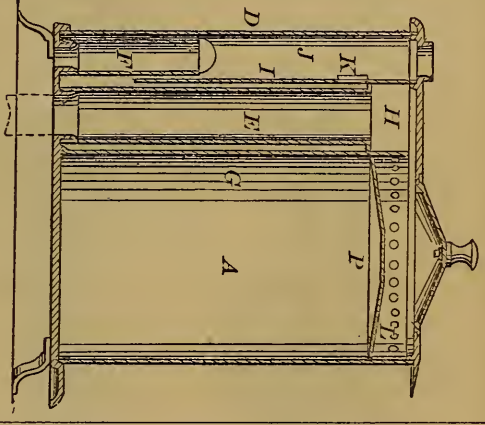
80273—T. Cabourg—*Boot Soling Machine.*



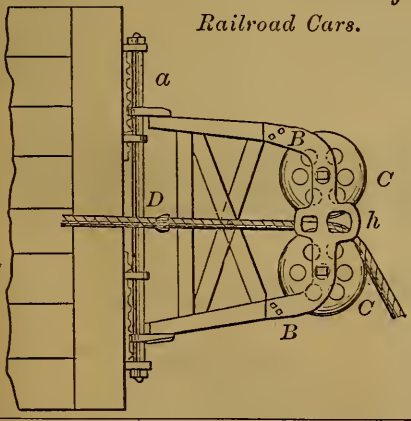
80274—J. Collines—*Fishing Seine.*



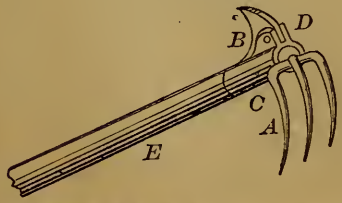
80275—J. Cooper—*Coal Stove.*



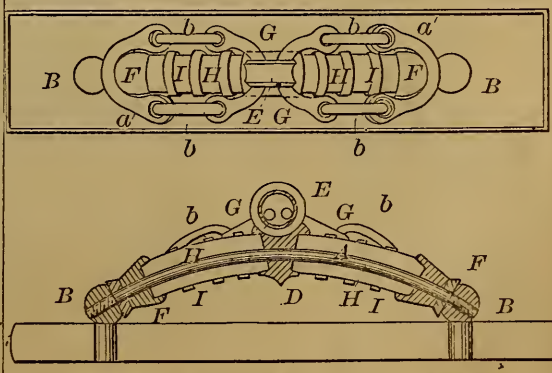
80276—J. Dable—*For Unloading Railroad Cars.*



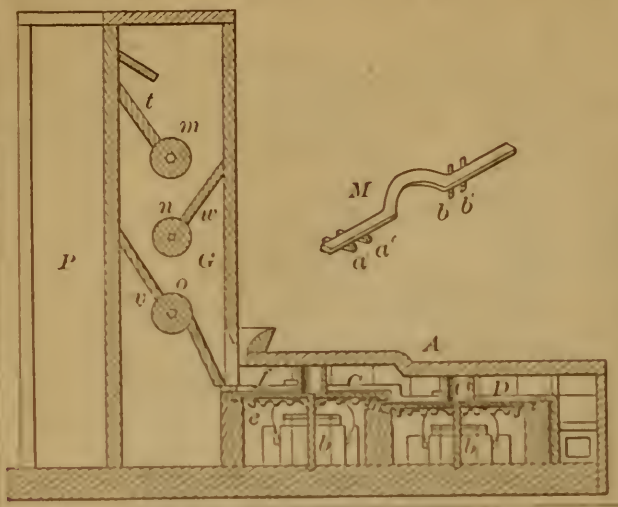
80277—E. & E. C. Denio—*Hop Hook.*



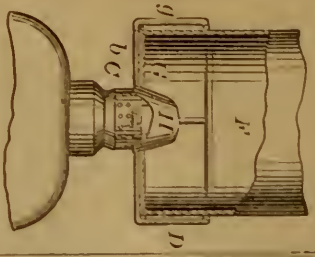
80278—J. Edson—*Stop for Sails.*



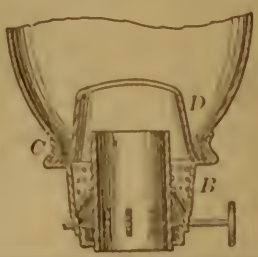
80279—S. H. Folsom—*For Treating Ores.*



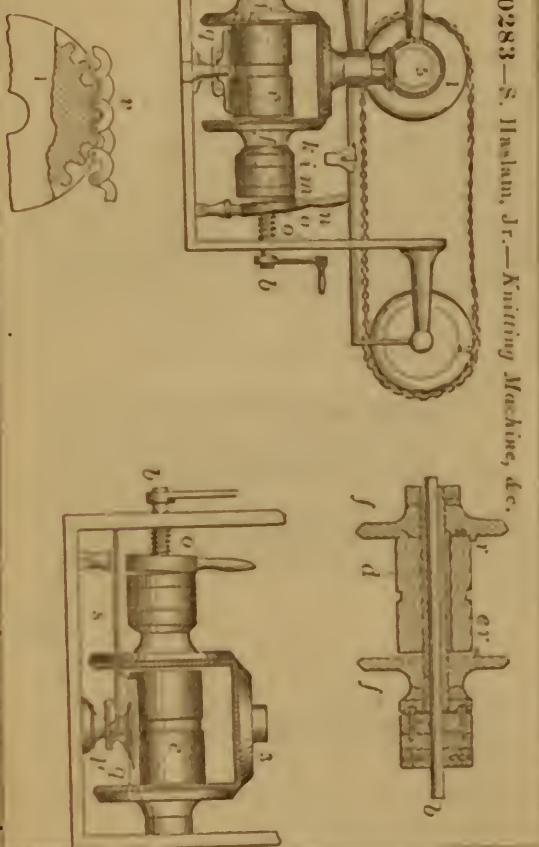
80281—R. Gorsline—*Lamp Burner.*



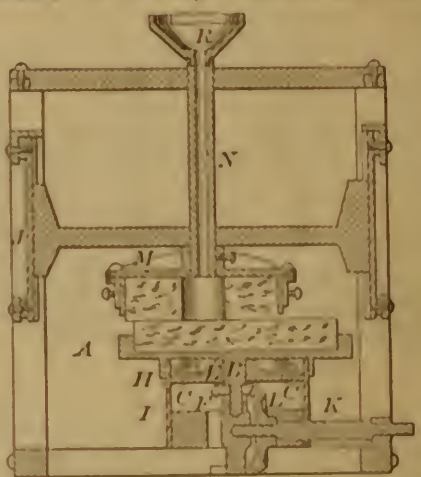
80282—Gracie & Boyd—*Lamp Chimney.*



80283—S. Haslam, Jr.—*Knitting Machine, &c.*

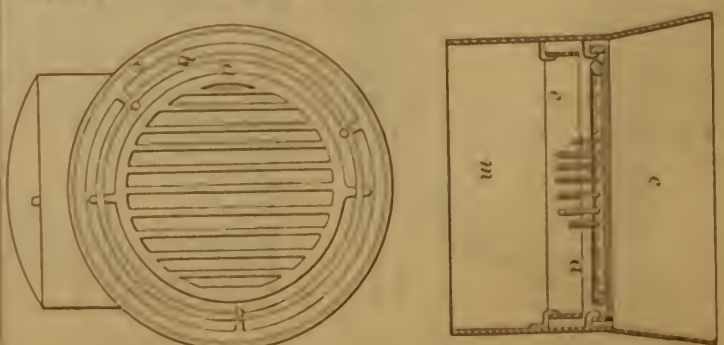


80286—F. L. King—*For Dressing Stone.*



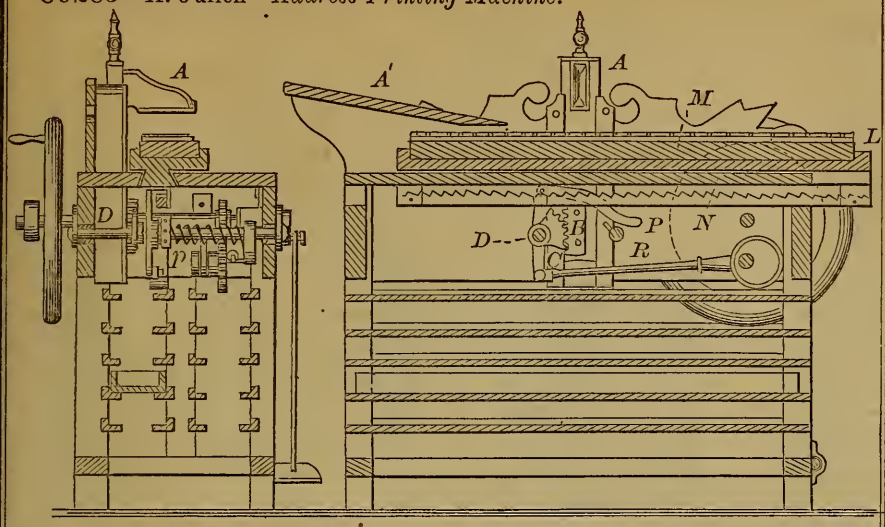
80287—W. C. Kneeland—*Manufacture of Cigars.*

80280—Gommenginger & Trotter—*Stove and Furnace Grate.*

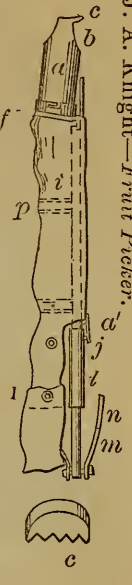


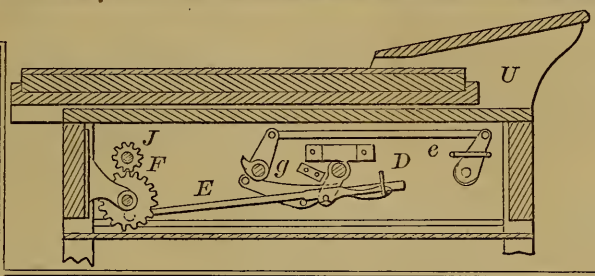
80281—F. L. Hillright—*Cigar.*

80285—H. Julien—*Address Printing Machine.*

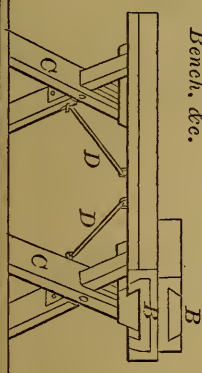


80288—J. A. Knight—*Fruit Picker.*

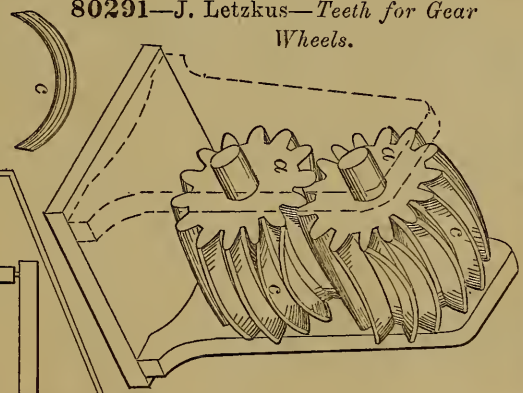




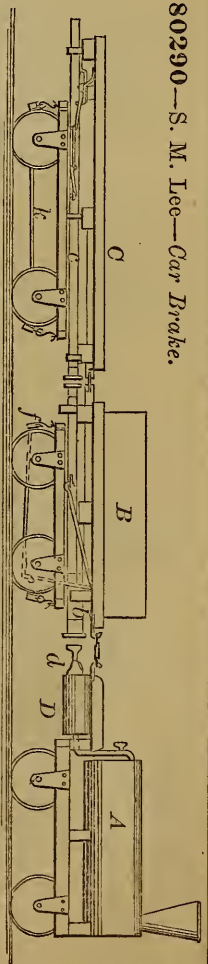
80289—D. S. Leavitt—*Table, Bench, &c.*



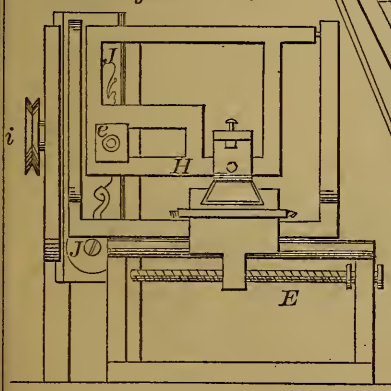
80291—J. Letzkus—*Teeth for Gear Wheels.*

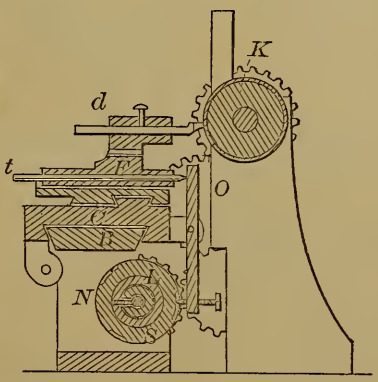


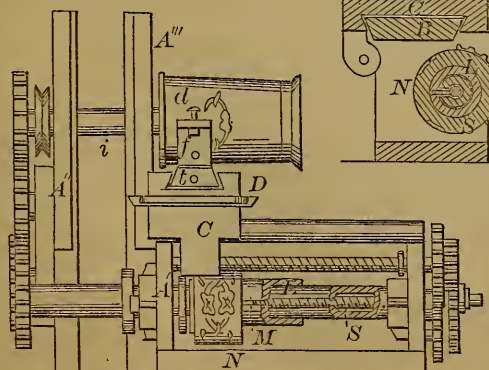
80290—S. M. Lee—*Car Brake.*

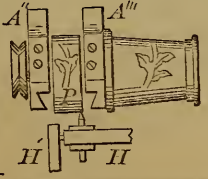


80292—T. Lippiatt—*Rose-Engine Lathe.*

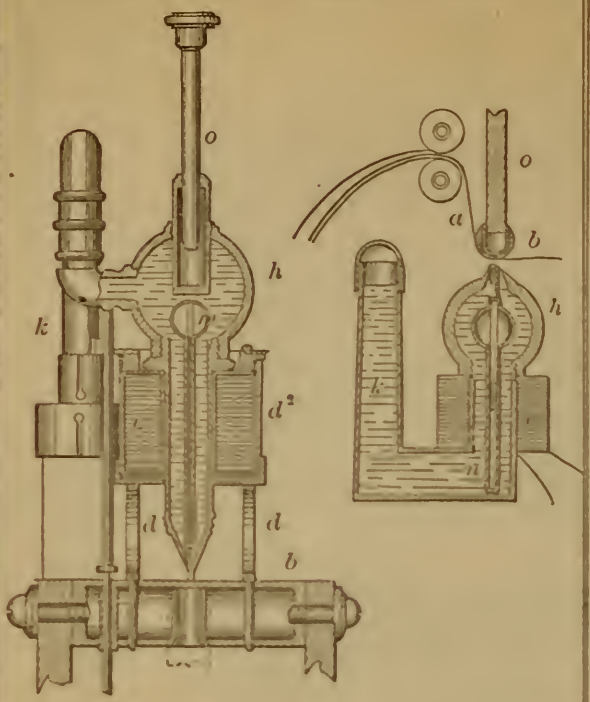




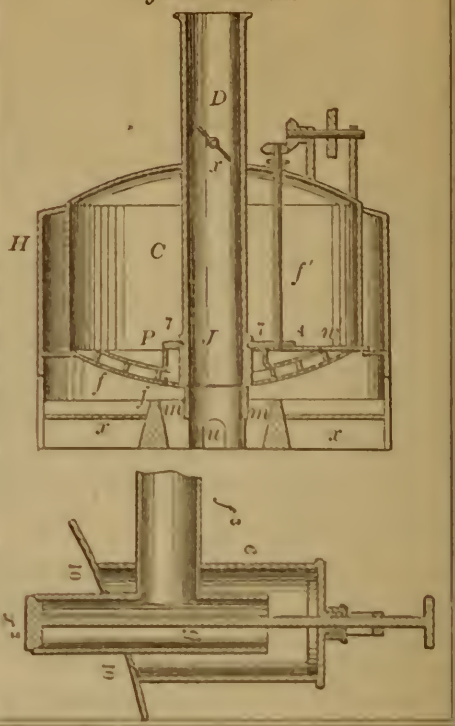




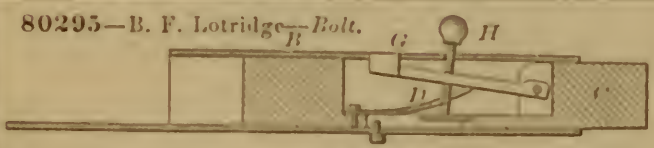
80293—G. Little—*Telegraph Instrument.*



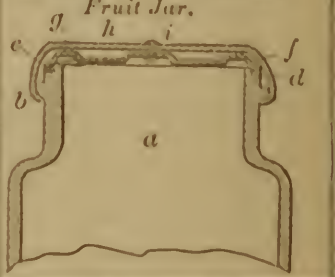
80294—Lockhart & Gracie—*Still for Hydro-Carbons.*



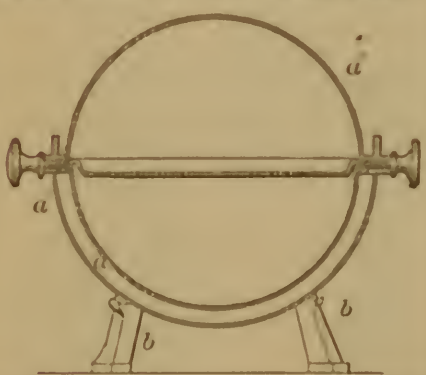
80295—B. F. Lotridge—*Bolt.*



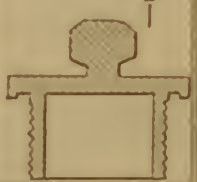
80296—W. W. Lyman—*Fruit Jar.*



80297—W. W. Lyman—*Butter Dish.*

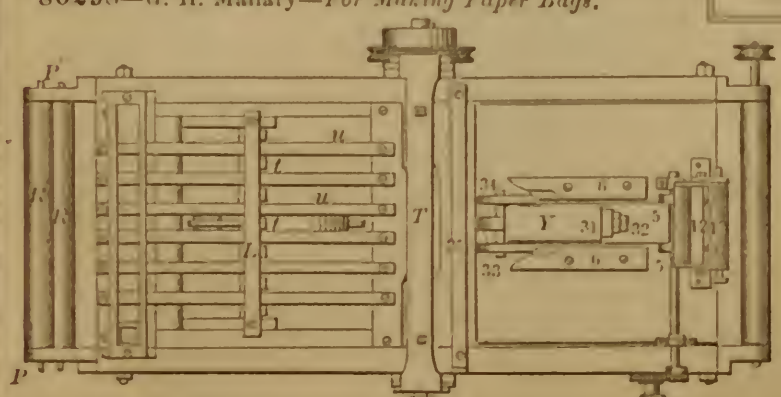


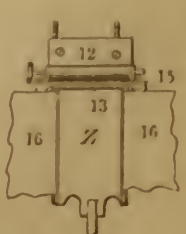
80299—G. W. Martin—*Manufacture of Soft Rubber.*



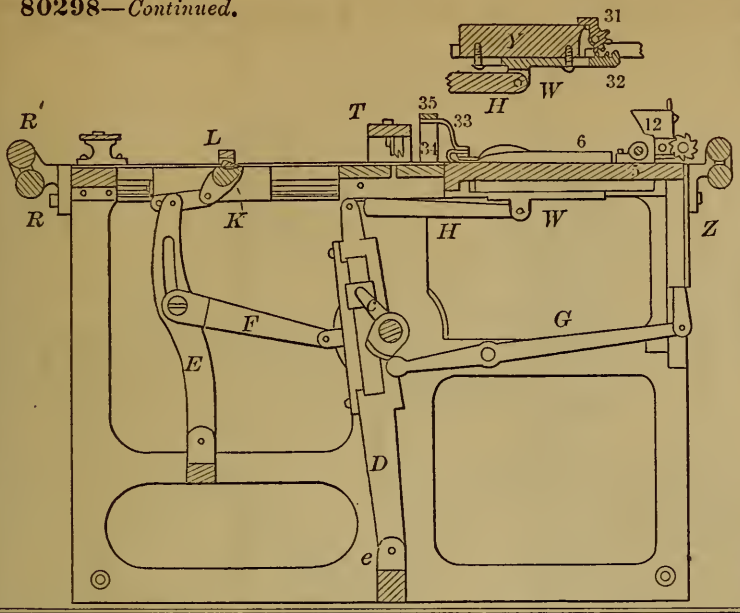
80300—G. W. Martin—*Cane Seat.*

80298—G. H. Mallary—*For Making Paper Bags.*

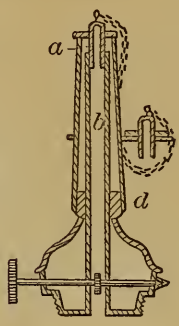


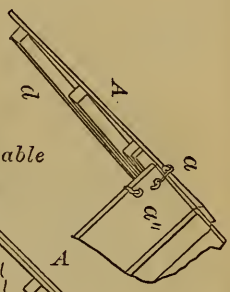


80298—*Continued.*

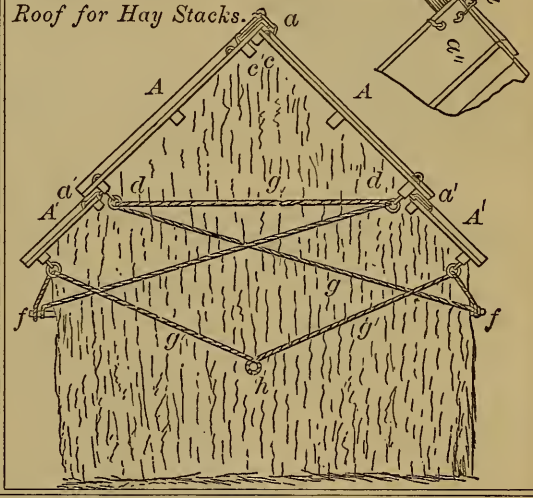


80302—P. Noyes—*Lamp.*

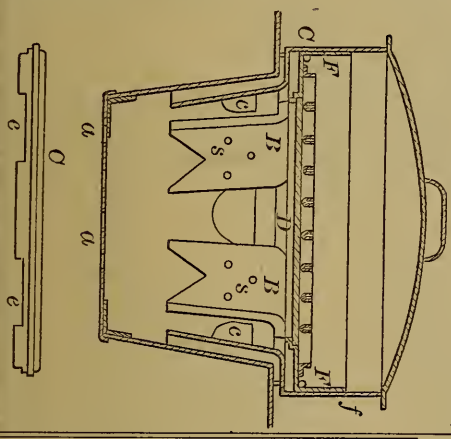




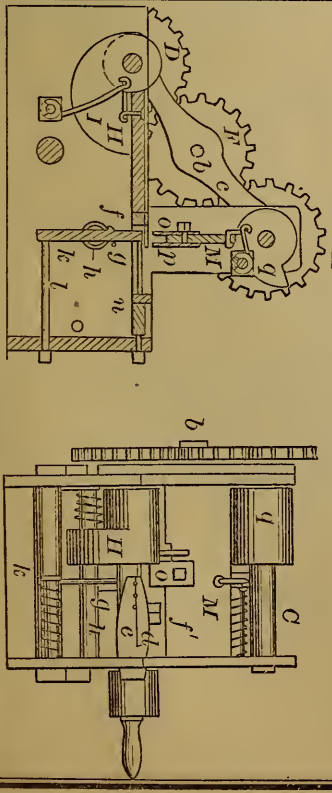
80301—T. Munson—*Portable Roof for Hay Stacks.*



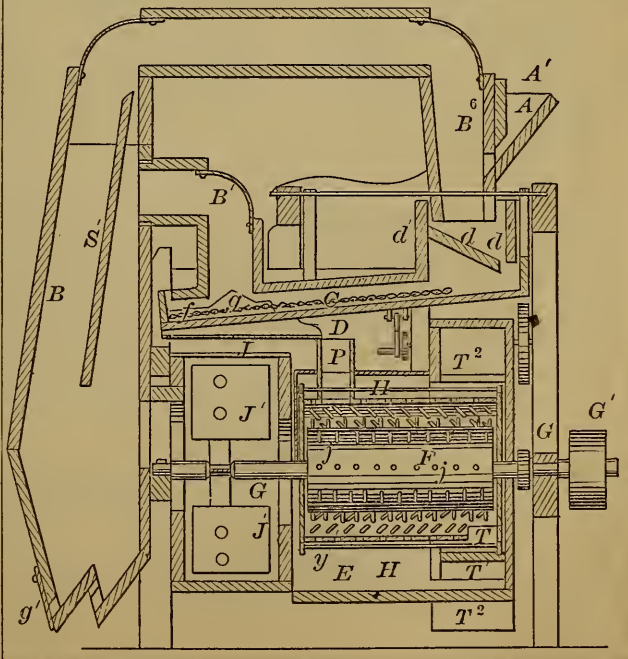
80303—W. W. S. Orbeton—*Culinary Apparatus.*



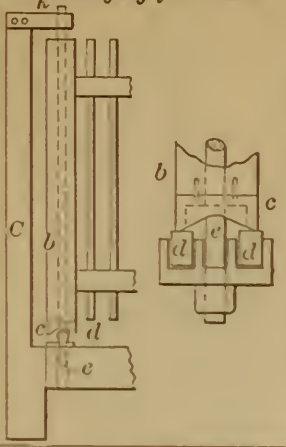
80304—J. S. Perkins—*For Making Knitting Machine Needle Shanks.*



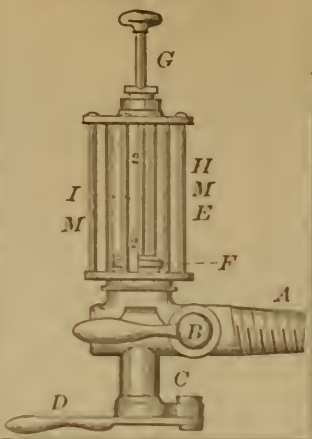
80306—R. & J. H. Redfield—*Smut Mill.*



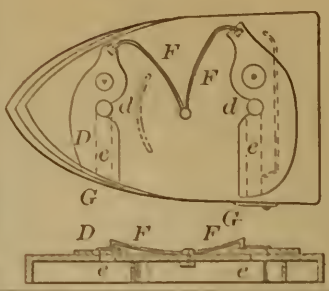
80305—Rasa & Mayes—*Hanging for Gates.*



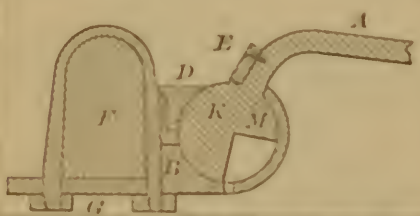
80307—T. S. Reeve—*Measuring Faucet..*



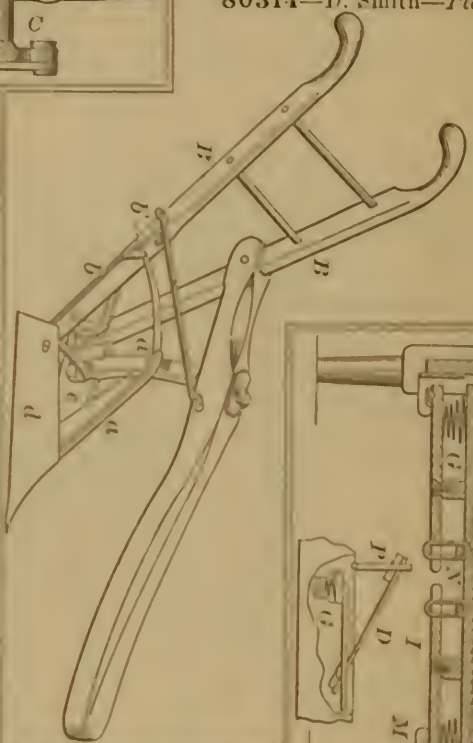
80311—G. H. Roth—*Sad Iron Holder.*



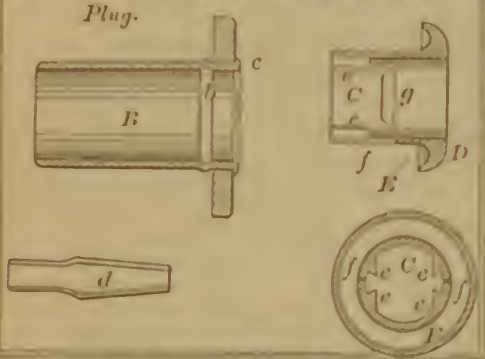
80310—C. Robinson—*Thill Coupling.*



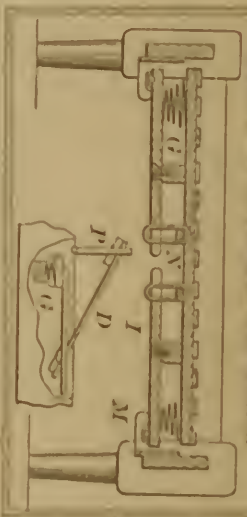
80314—D. Smith—*Plow.*



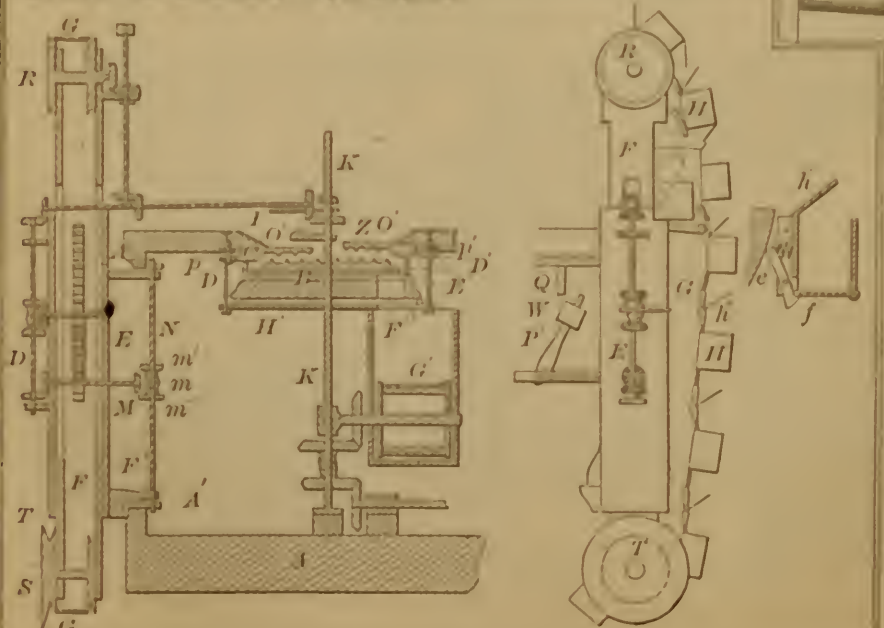
80313—W. N. Sinclair—*Boiler Flue Plug.*



80312—I. N. Sheets—*Bed Bottom.*

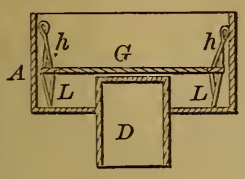


80309—M. S. Roberts—*Peat Machine.*

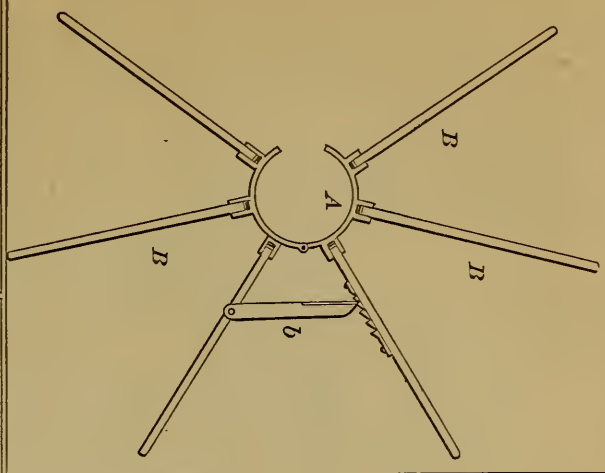


80308—M. A. Richardson—*Horse Power.*

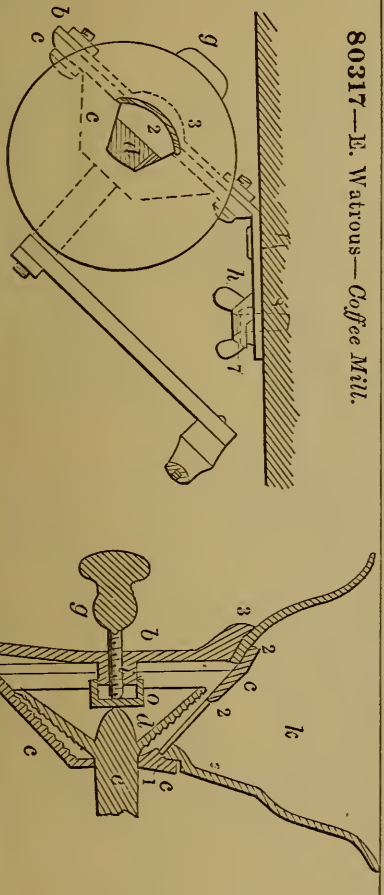
80315—V. M. Thomas—*Culinary Apparatus.*



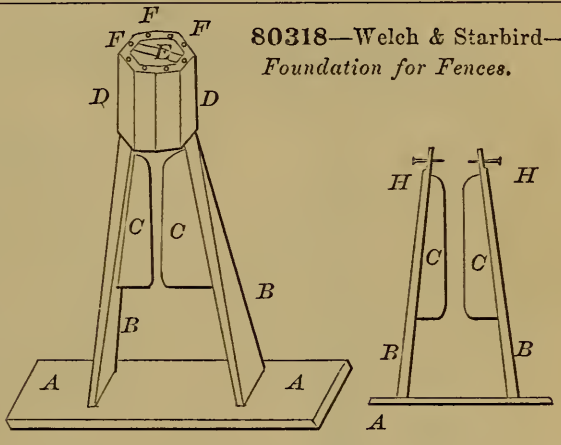
80316—L. B. Waterman—*Clothes Dryer.*



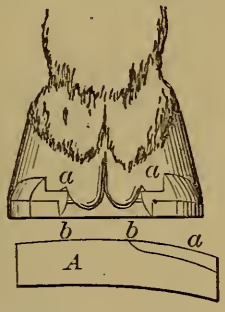
80317—E. Watrous—*Coffee Mill.*



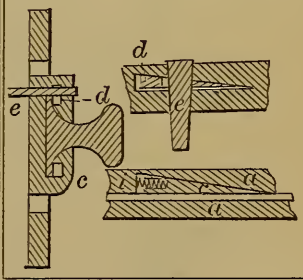
80318—Welch & Starbird—*Foundation for Fences.*



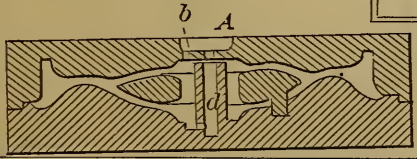
80319—J. L. Wetherell—*Pad for Horses' Hoofs.*



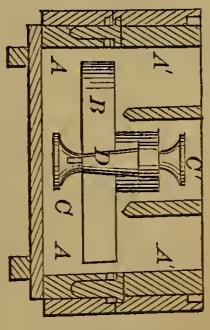
80320—W. Wickersham—*Railway Chair.*



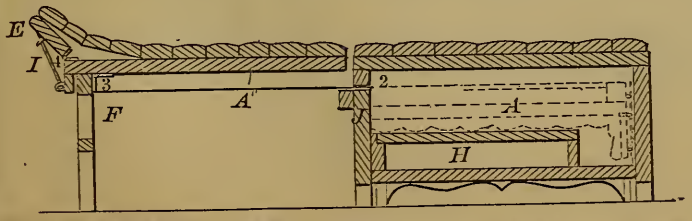
80323—W. Wilmington—*Car Wheel.*



80321—W. H. Wiley—*Supporting Chill in Casting.*

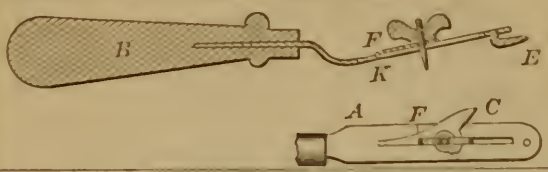


80322—G. H. C. Williams—*Ottoman Lounge.*

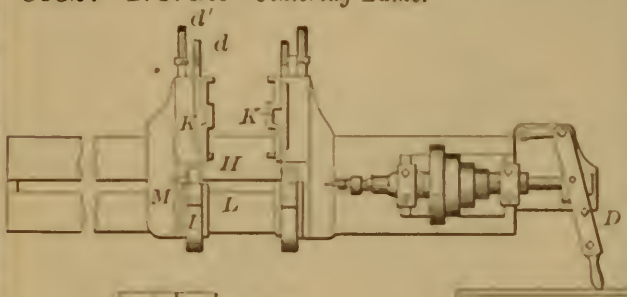


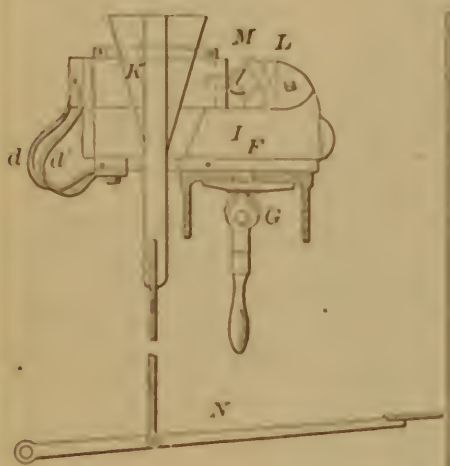
80324—G. W. Wilson—*Cane and Telescope.*

80326—F. S. Wyman—*Can Opener.*

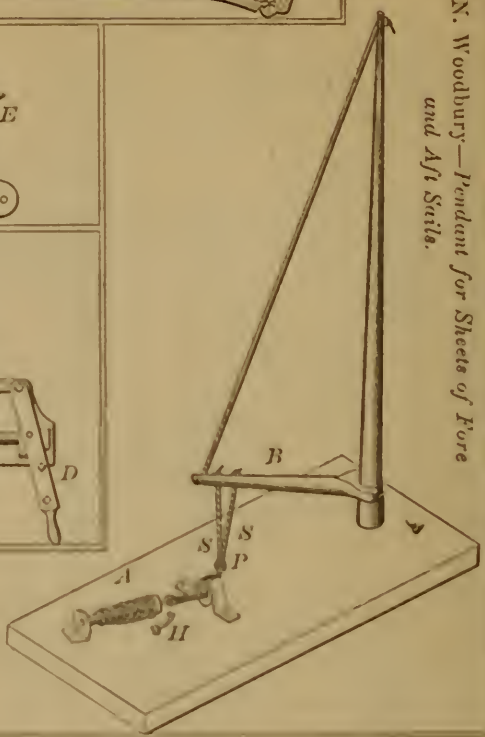


80327—B. F. Bee—*Centering Lathe.*

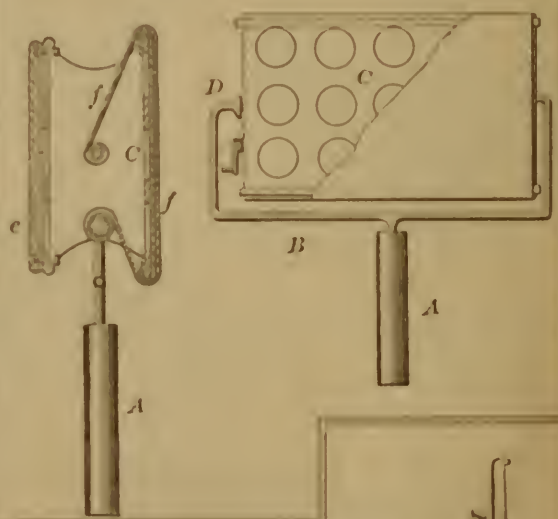




80325—N. Woodbury—*Pendant for Sheets of Fore and Aft Sails.*

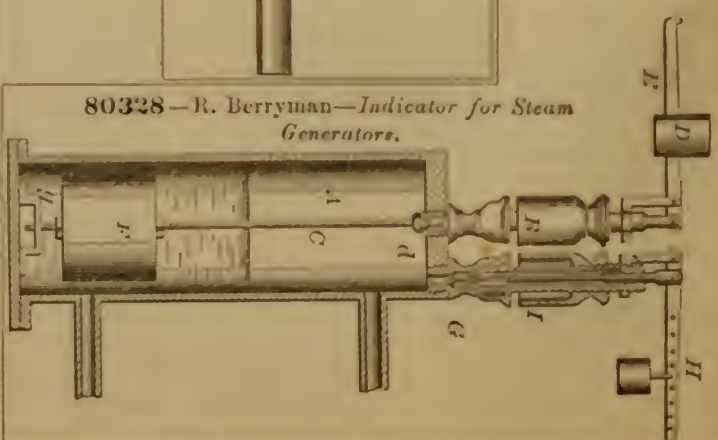


80330—B. F. Burgess, Jr.—*Window Scrubber.*

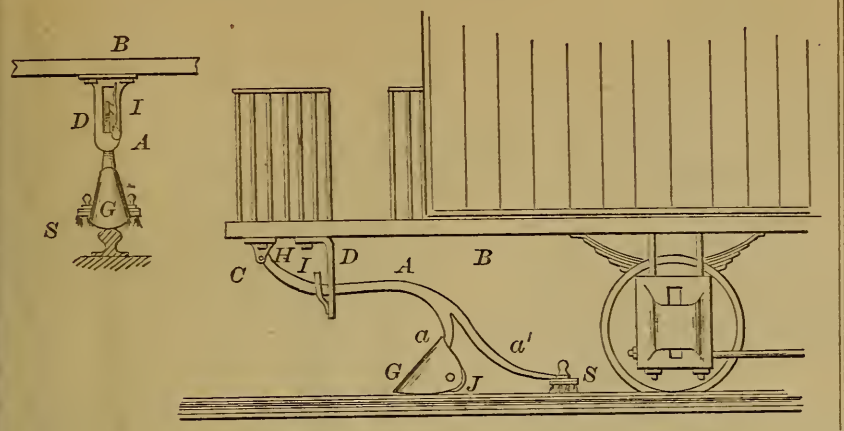


80329—F. M. Bode—*Coffee Roaster.*

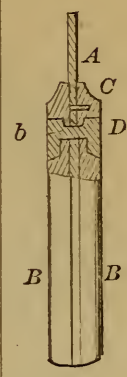
80328—R. Berryman—*Indicator for Steam Generators.*



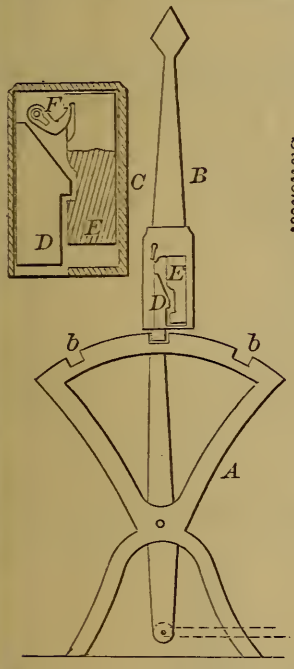
80331—J. Callaghan—*Railroad Track Clearer.*



80334—W. Clayton—*Table Cutlery.*



80332—J. V. Chamberlin—*Lock for Securing Railroad Switches.*



80333—S. Charnley—*Oil Cup.*

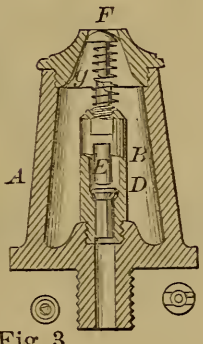
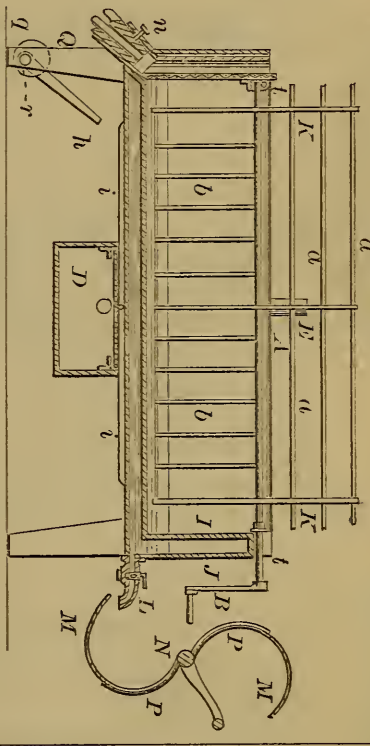
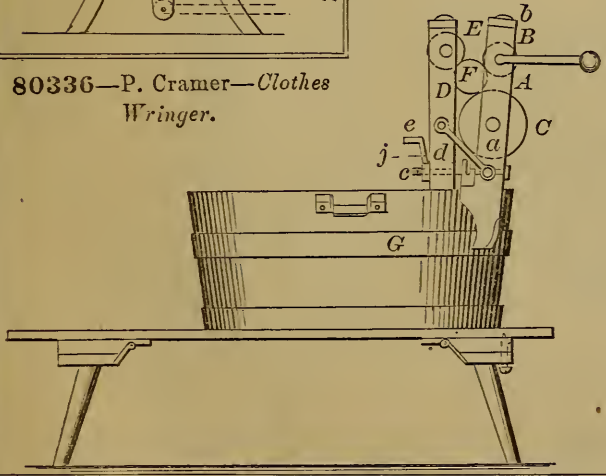


Fig. 3

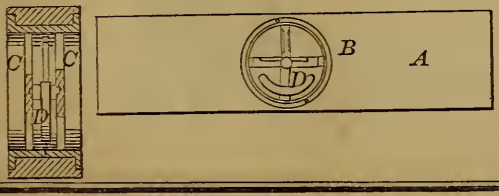
80335—P. Colvin—*Cheese Vat.*



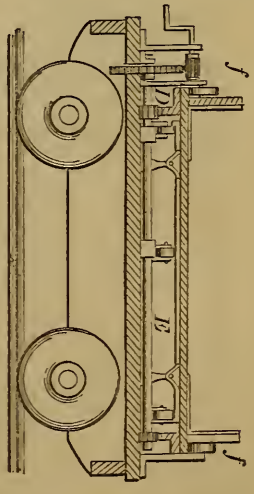
80336—P. Cramer—*Clothes Wringer.*



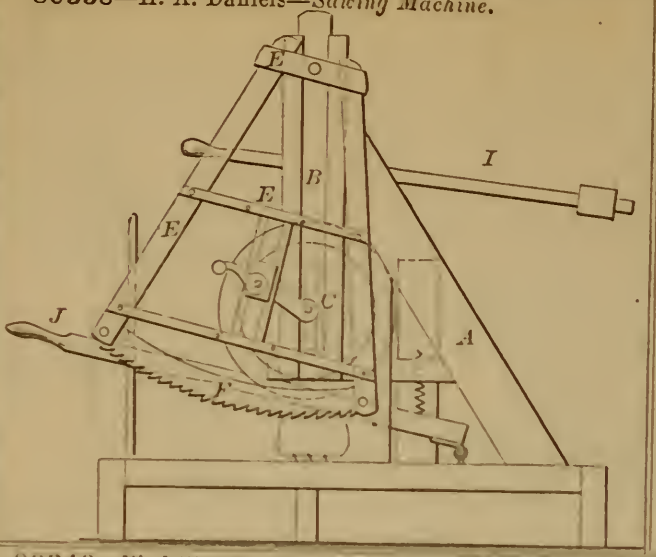
80337—W. P. Cutter—*Level.*



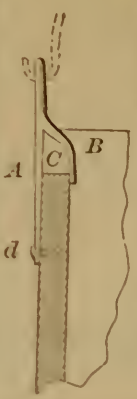
80339—P. Daniels—*Dumping Car.*



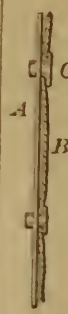
80338—H. A. Daniels—*Sawing Machine.*



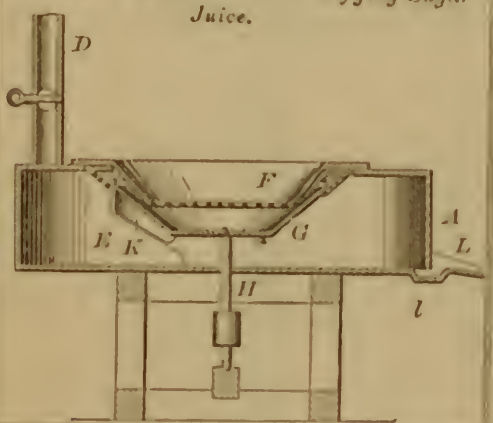
80341—G. E. Eastman—*Pail Ear.*



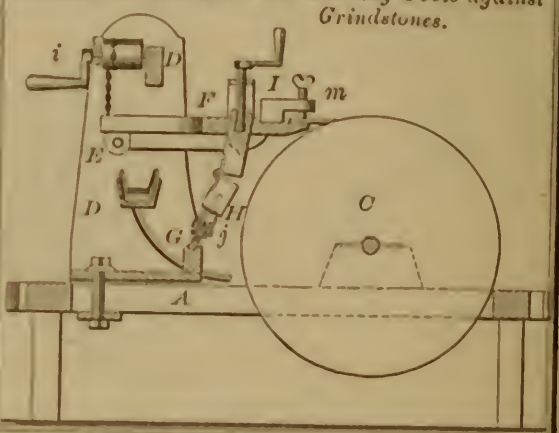
80343—L. Fellheimer—*Hoop Skirt Clasp.*



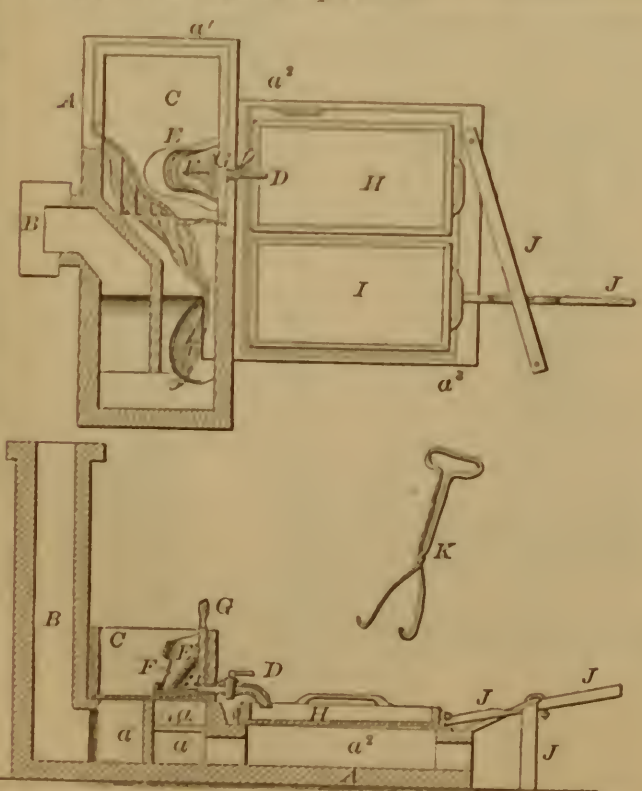
80340—W. Dill—*For Clarifying Sugar Juice.*



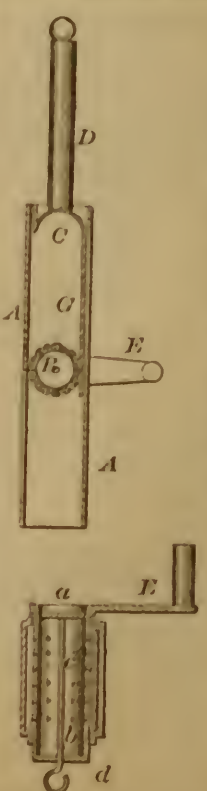
80344—E. Fernald—*For Holding Tools against Grindstones.*



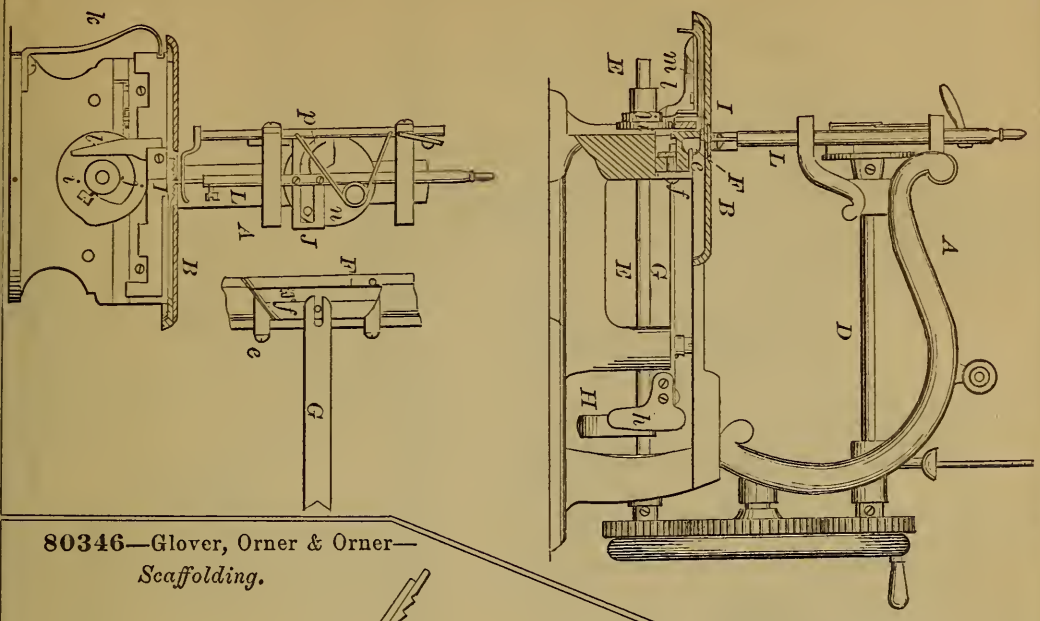
80342—N. Evinger—*Evaporator.*



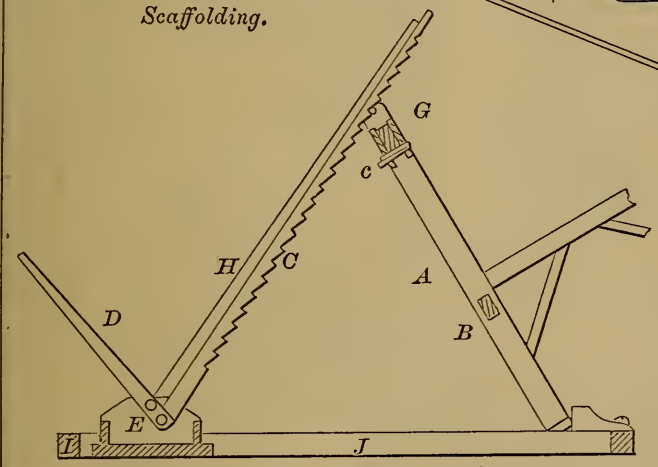
80347—E. A. Goodee—*Nutmeg Grater.*

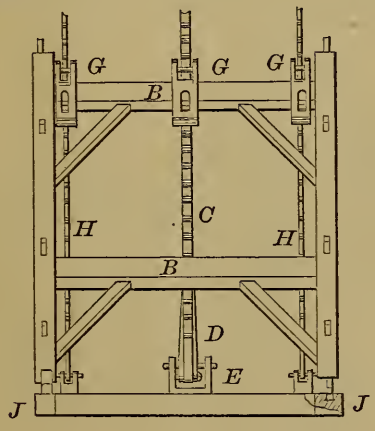


80345—S. French—*Sewing Machine.*

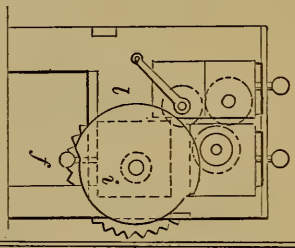


80346—Glover, Orner & Orner—*Scaffolding.*

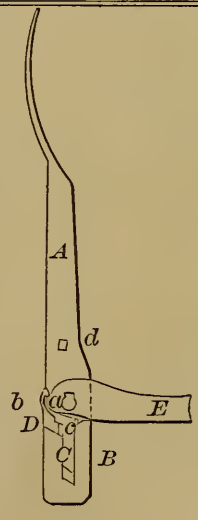




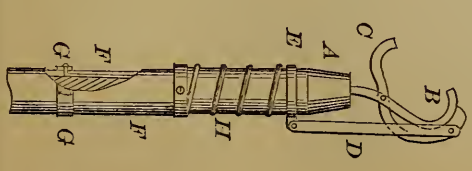
80348—Grove & Hedrick—*For Bending Sheet Metal.*



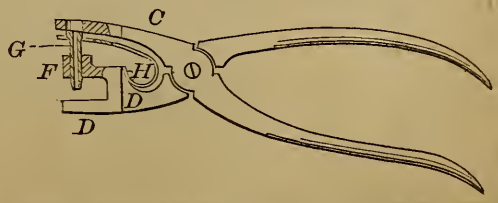
80351—H. Howe—*Bolt Cutter.*



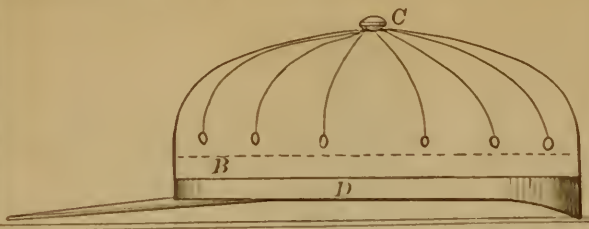
80350—J. Hoffman—*Tanners' Hook.*



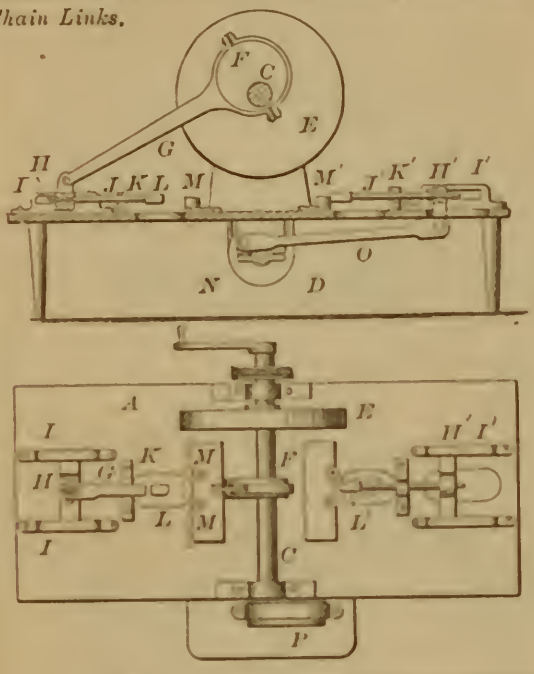
80349—J. D. Higgins—*Hand Punch.*



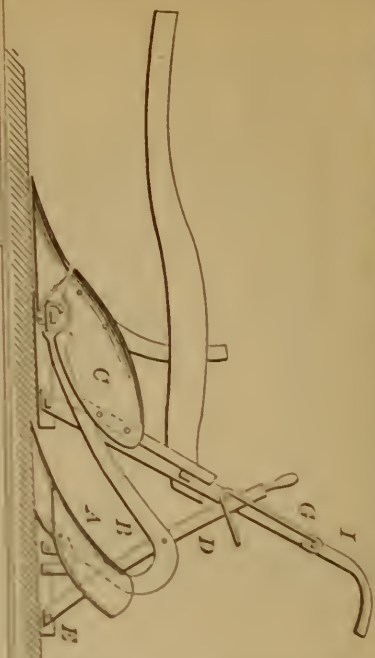
80352—Imbach & Weidenman—*Paper Cap.*



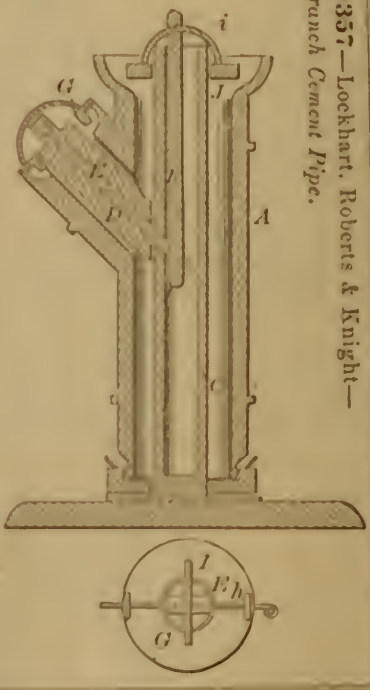
80354—P. Kendrick—*For Flattening and Bending Chain Links.*



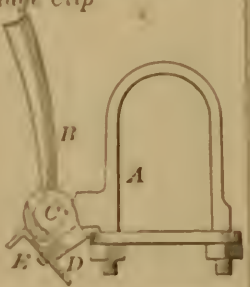
80356—Leonard & Gobar—*Subsoil Attachment for Plows.*



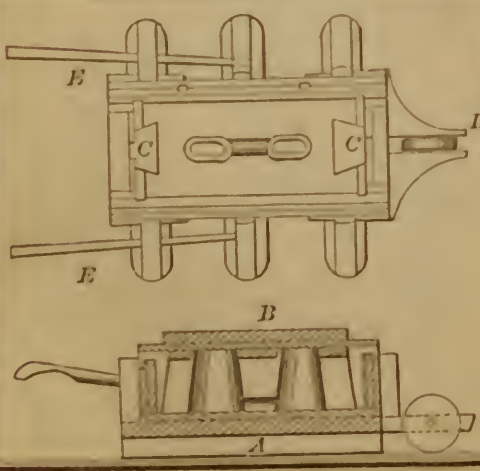
80357—Lockhart, Roberts & Knight—*Branch Cement Pipe.*



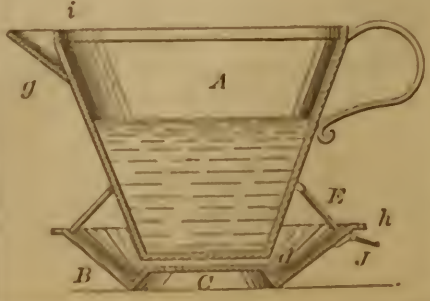
80360—T. McCreary—*Carriage Clip*



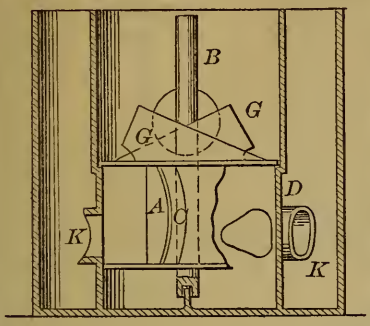
80358—T. J. Lowry—*Mould for Building Blocks.*

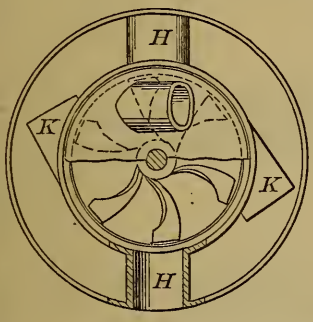


80355—Leslie & Tibbetts—*Nursery Cup.*

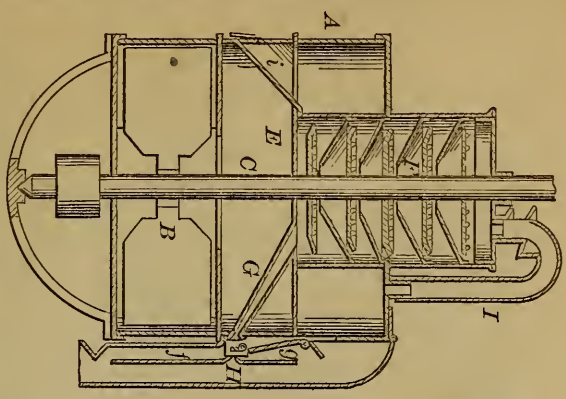


80359—L. Lyons—*Water Wheel.*

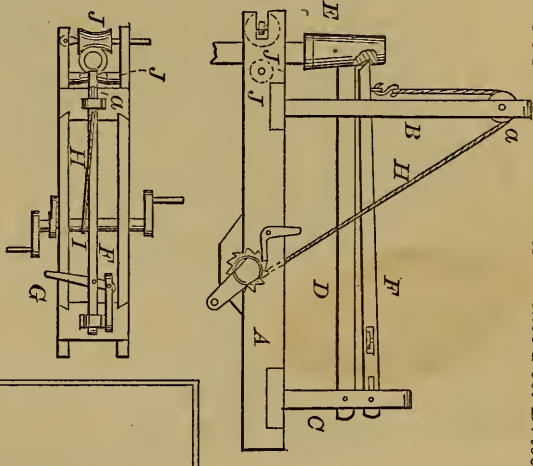




80361—E. McLane—*Smut Machine.*

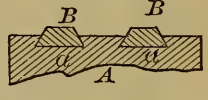


80364—I. J. Parker—*Fence Post Driver.*

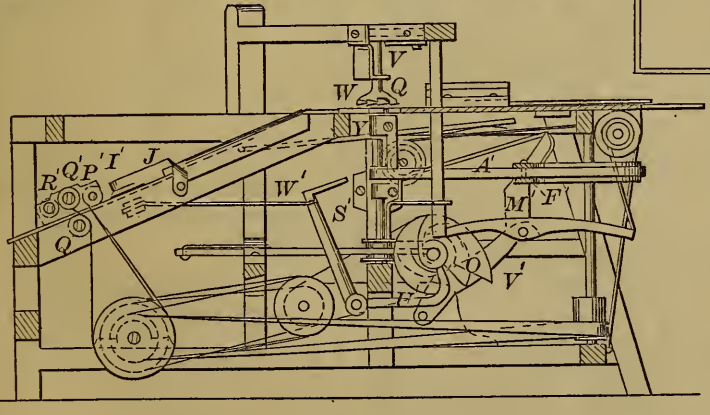


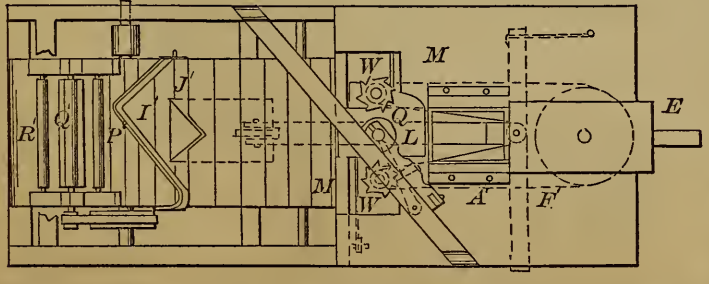
80362—A. C. Mills—*Corn Sheller.*

80366—W. Smith—*Boots and Shoes.*



80363—W. F. Mosser—*For Dressing Slate Frames.*





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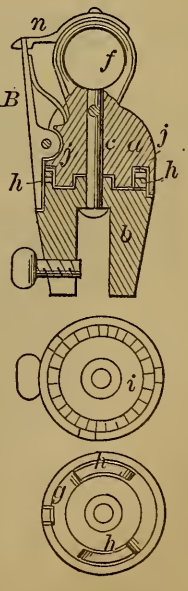
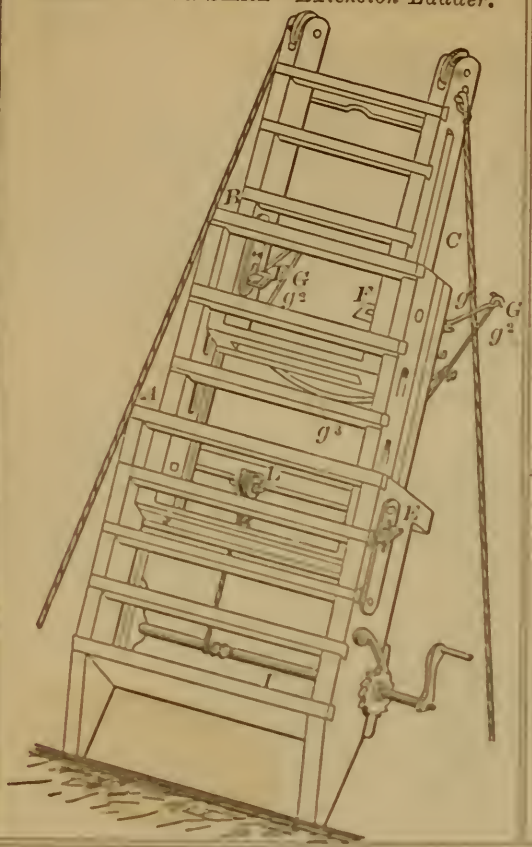
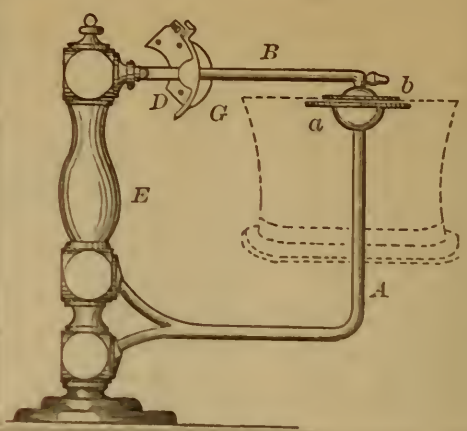


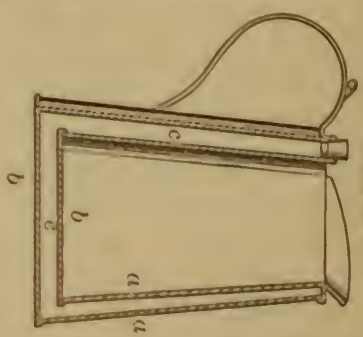
80367—J. A. Smith—*Extension Ladder.*



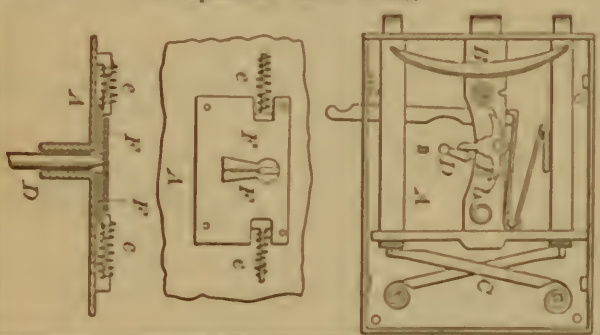
80374—Z. Waters—*Hat Holder.*



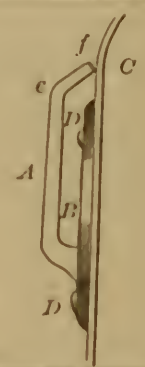
80370—W. Sprague—*Liquid Measure.*



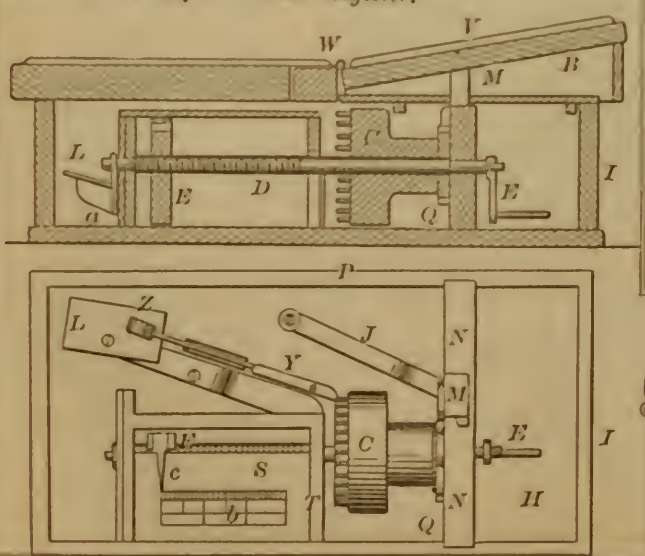
80369—J. G. Spathelf—*Door Lock.*



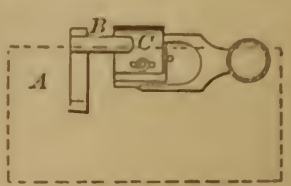
80373—C. Wack—*Back Band Hook.*

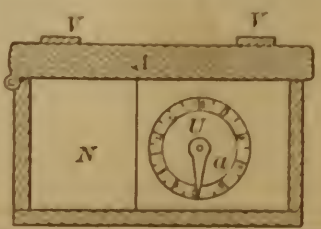


80372—B. Taylor—*Grain Register.*

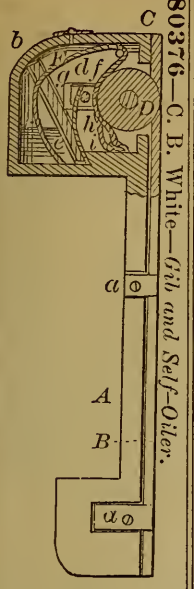


80371—A. Steward—*Rolling Attachment for Sewing Machines.*

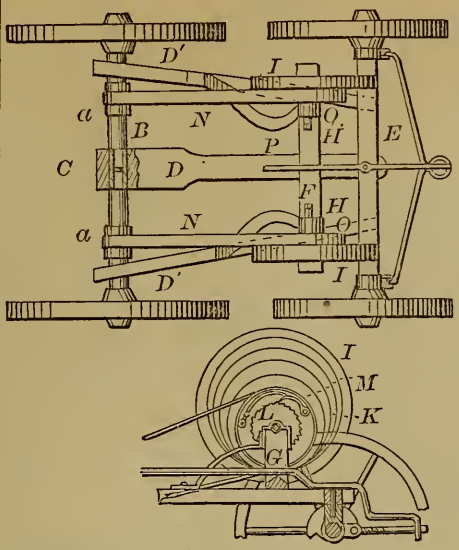




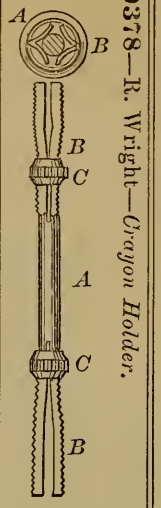
80376—C. B. White—*Gib and Self-Oiler.*



80377—J. Whitehead—*Carriage.*

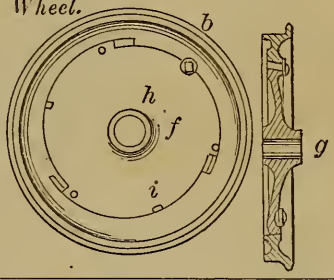


80378—R. Wright—*Crayon Holder.*

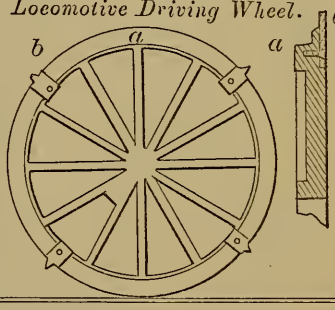


80379—W. Young, Jr.—*Door Mat.*

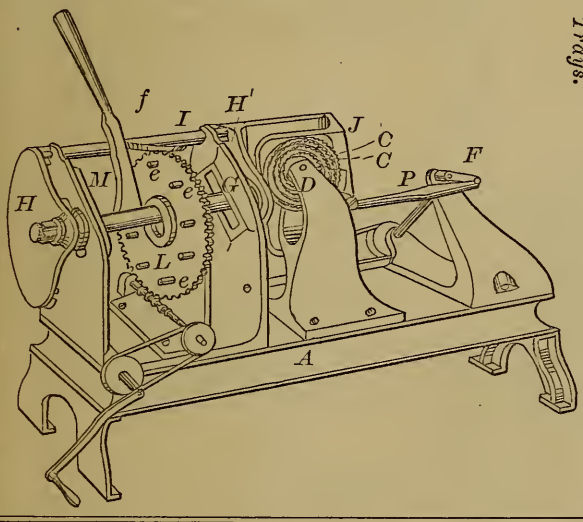
80380—A. Atwood—*Car Wheel.*



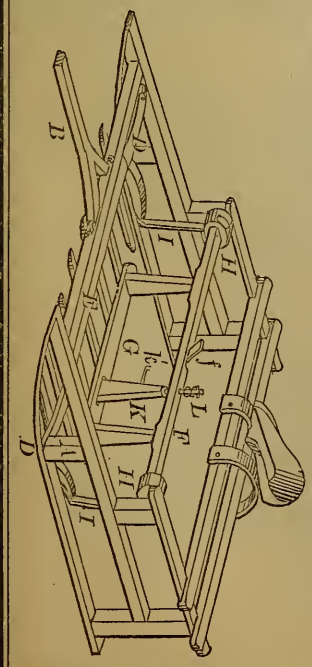
80381—J. Birkenhead—*Locomotive Driving Wheel.*



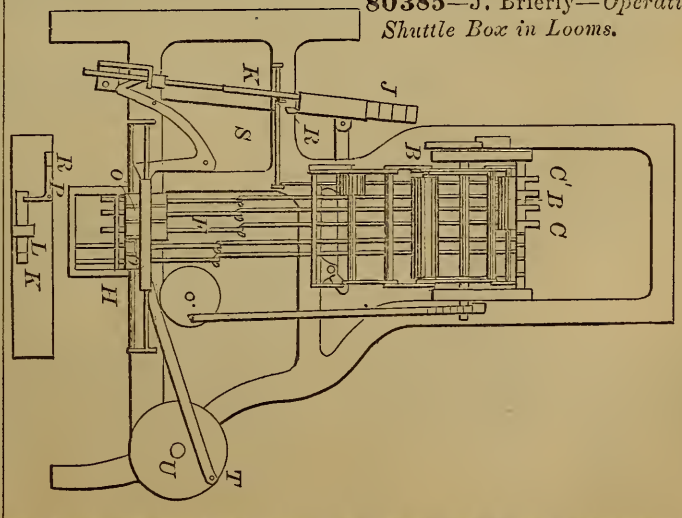
80382—H. Barber—*For Making Wooden Trays.*



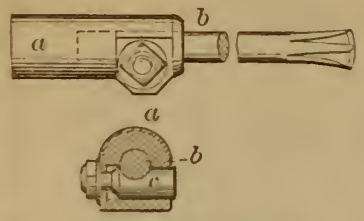
80383—W. H. Barton—*Horse Rake.*



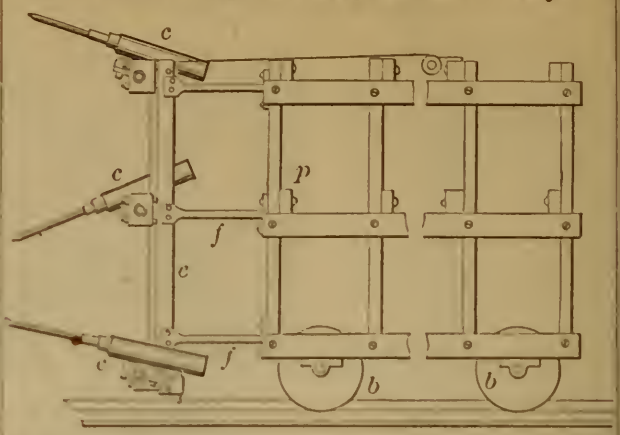
80385—J. Brierly—*Operating Shuttle Box in Looms.*



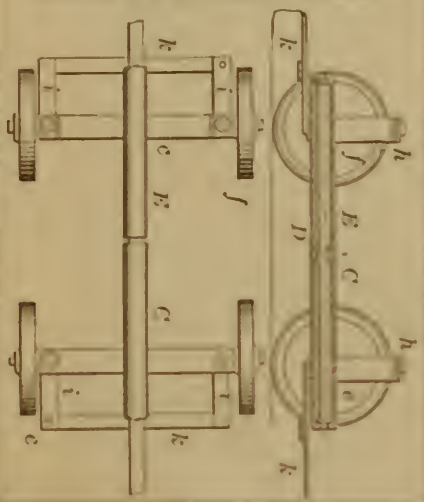
80386—C. Burleigh—*Drill Holder.*



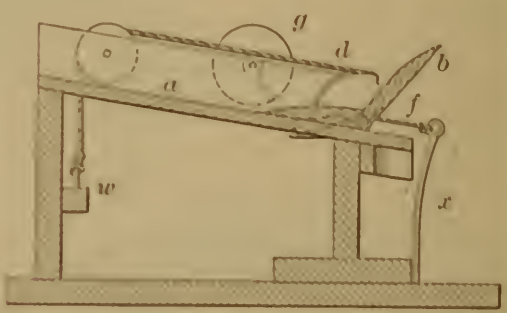
80387—C. Burleigh—*Drilling Machine Carriage.*



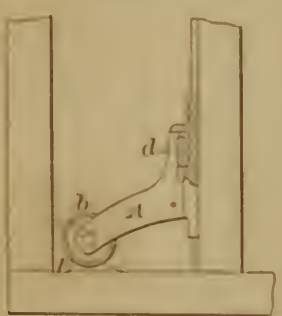
80388—O. F. Burton—*Truck.*



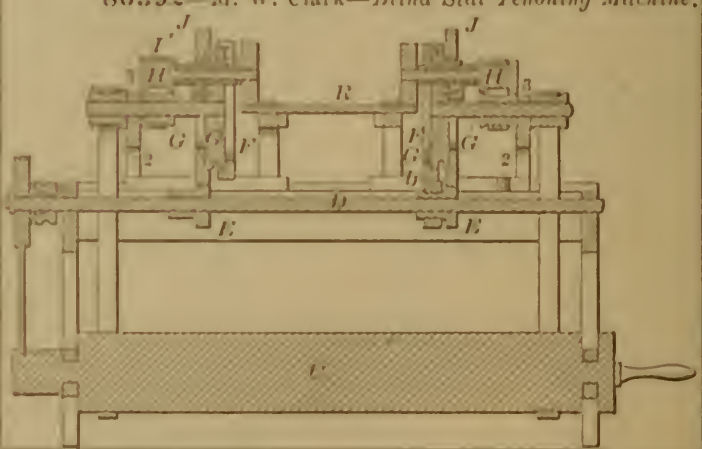
80391—J. A. Clark—*Ferry Bridge.*



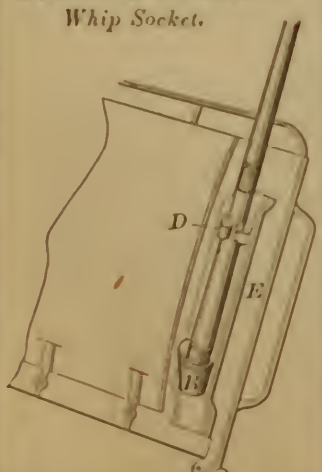
80390—J. K. Clark—*Door Holder.*



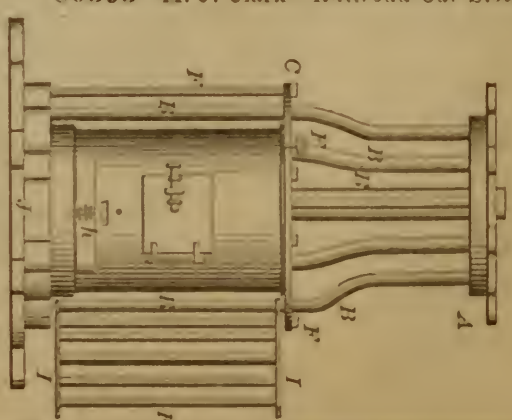
80392—M. W. Clark—*Blind Slat Tenoning Machine.*



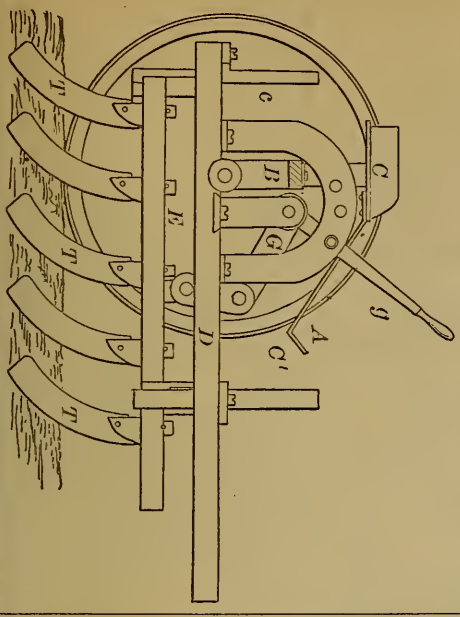
80389—C. Christian—*Whip Socket.*



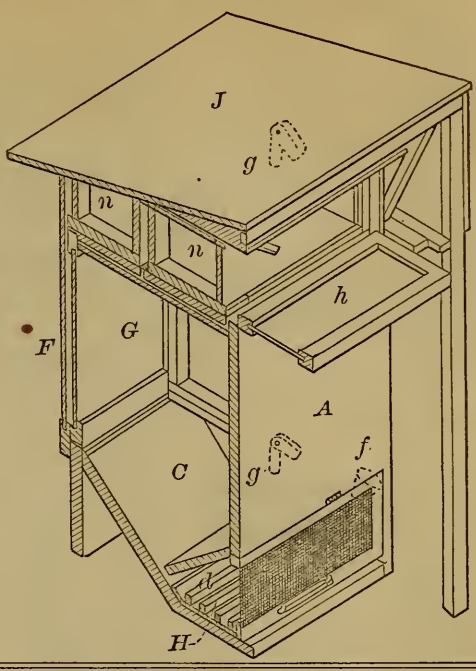
80393—M. J. Clark—*Railroad Car Stove.*



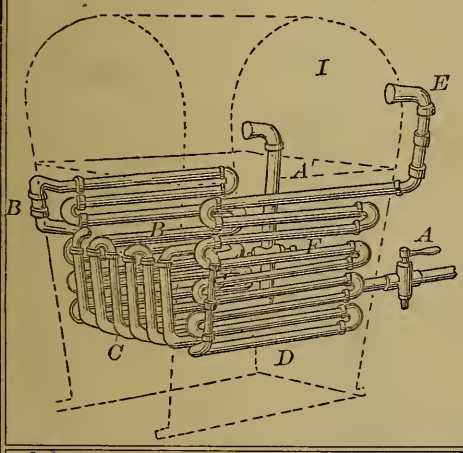
80394—I. B. Conklin—*Stubble Cutter.*



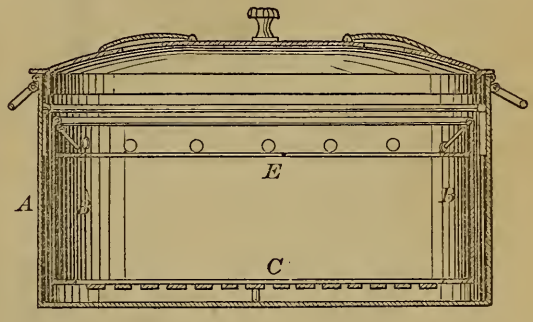
80395—S. Cuplin—*Bee hive.*



80396—J. Davis—*Steam Heater.*



80397—D. A. Danforth—*Wash Boiler.*



80398—W. T. Duvall—*For Collecting and Separating Metallic Substances.*

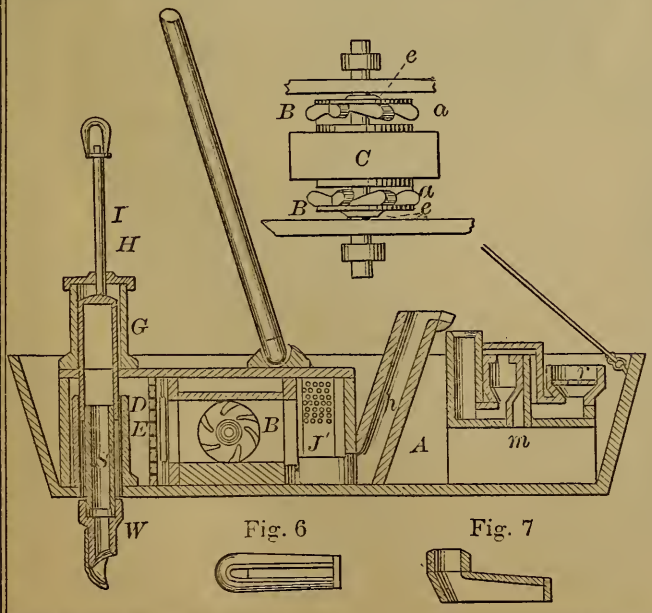
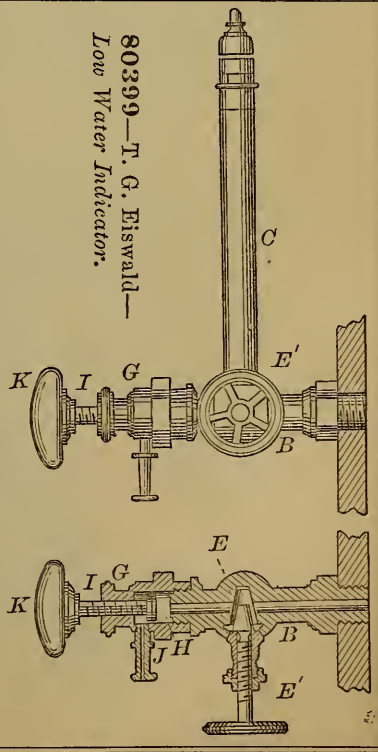


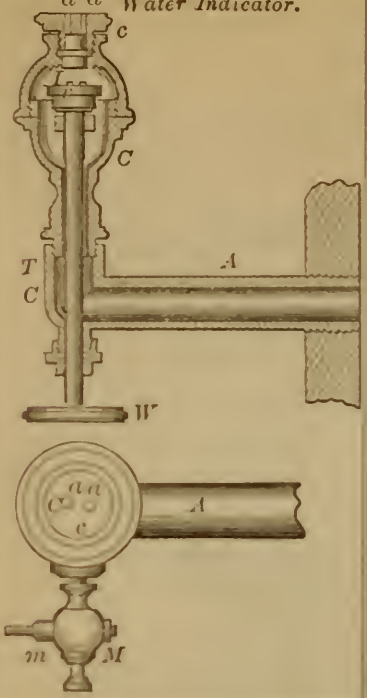
Fig. 6

Fig. 7

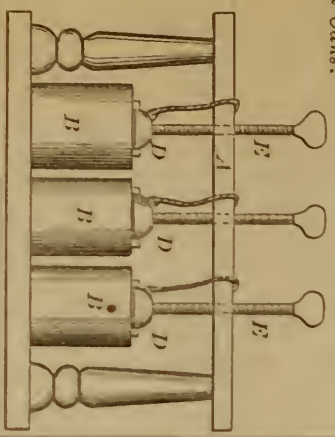
80399—T. G. Eiswald—*Low Water Indicator.*



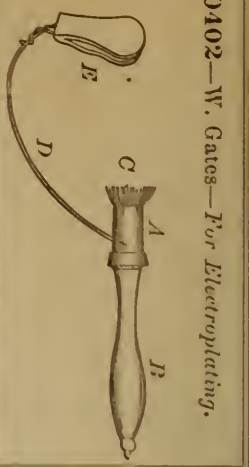
80400—T. G. Eiswald—*Low Water Indicator.*



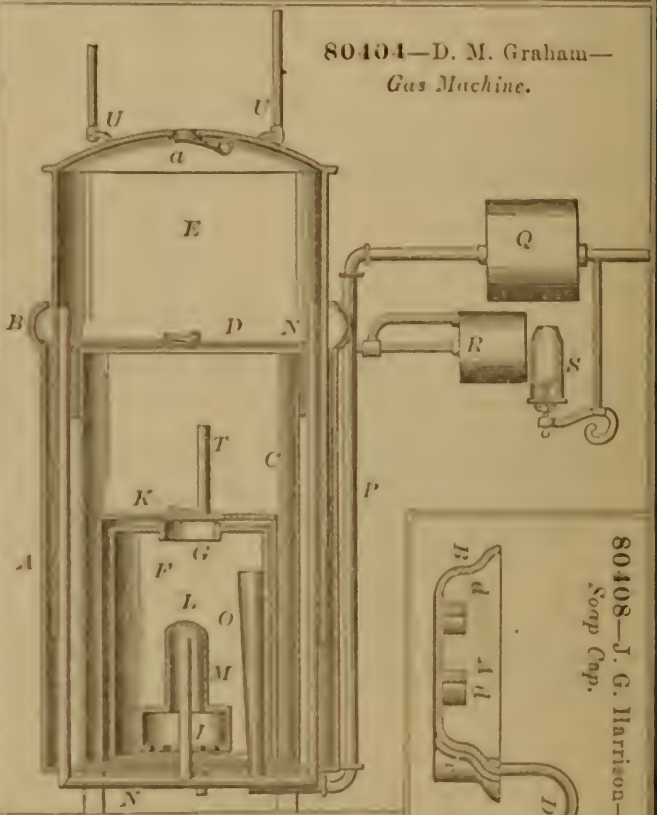
80401—T. M. Ferguson—*For Sealing Fruit Cans.*



80402—W. Gates—*For Electroplating.*



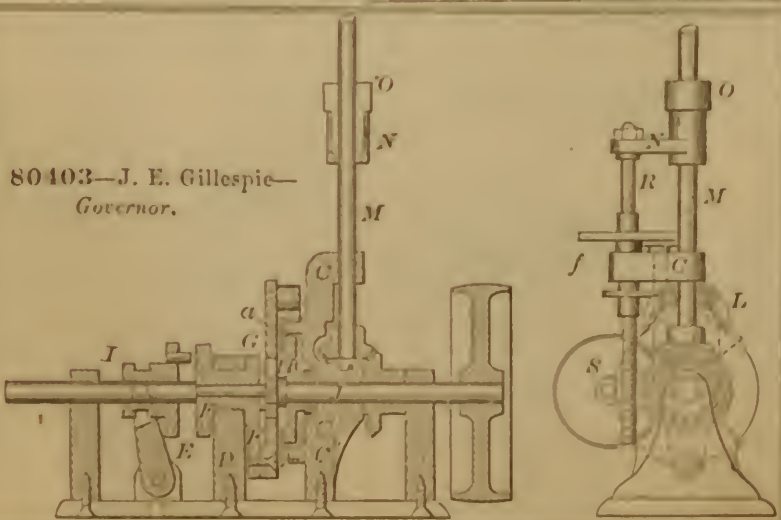
80404—D. M. Graham—*Gas Machine.*



80405—S. Graham—*Gang Plow.*

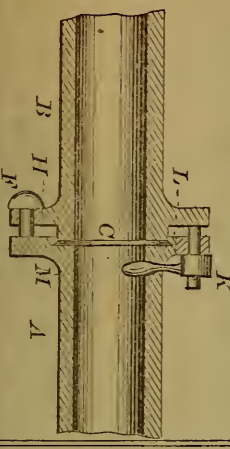
80408—J. G. Harrison—*Soap Cup.*

80403—J. E. Gillespie—*Governor.*

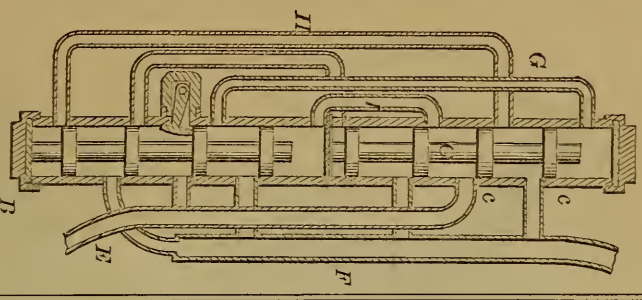


80406—W. Hall, Jr.—*Drill Holder.*

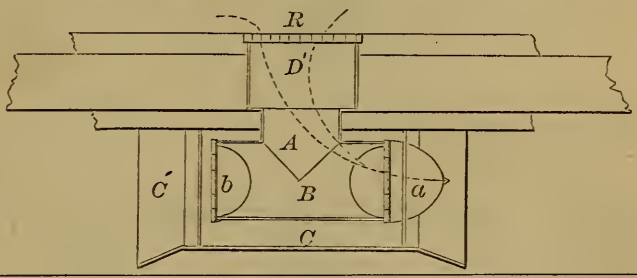
80407—Hanson & Bush—*Hose Coupling.*



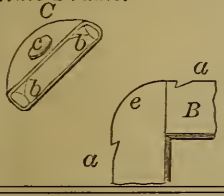
80409—A. Heaton—*Water Meter.*



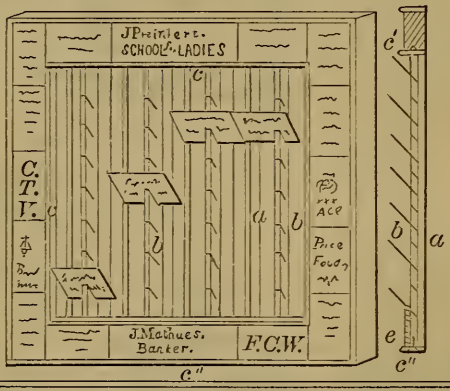
80411—M. T. Hitchcock—*Railroad Car Ventilator.*



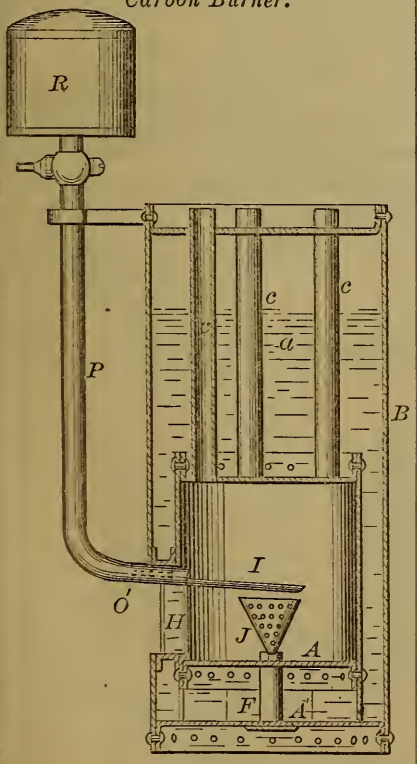
80410—R. Heneage—*Slate Frame.*



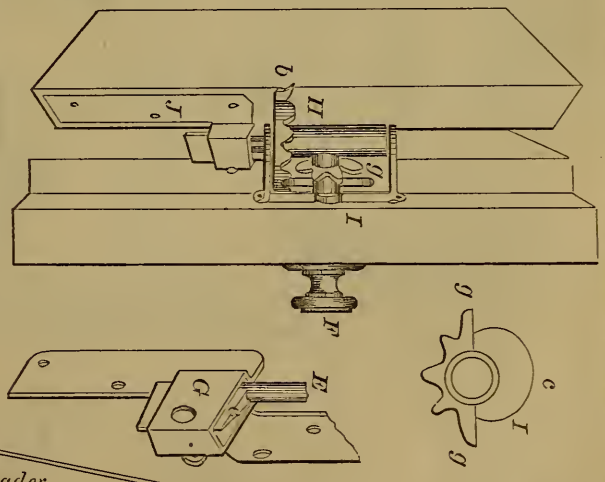
80415—M. Lepp—*Card Rack.*



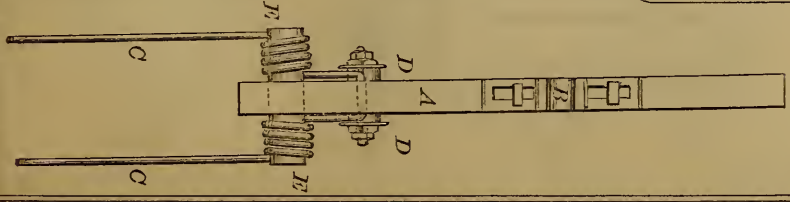
80413—S. P. Legg—*Hydro-Carbon Burner.*



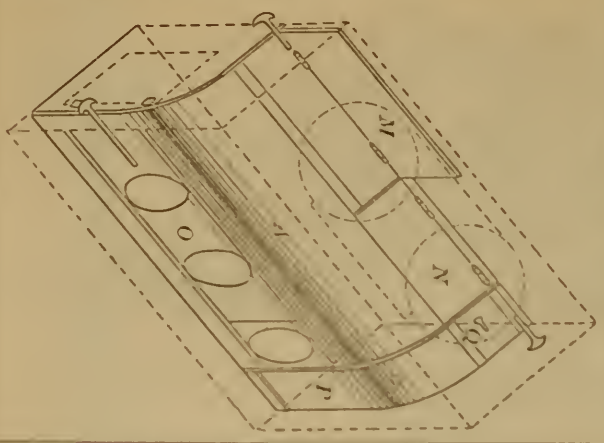
80414—C. Lehnert—*Opening and Closing Shutters.*



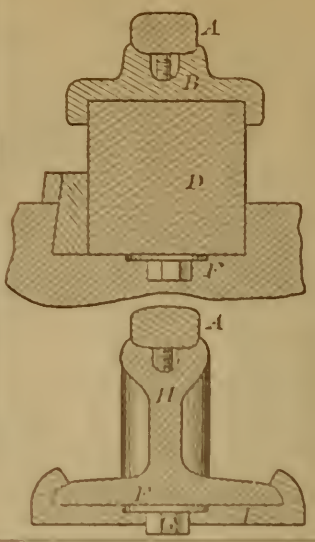
80412—De L. Kennedy—*Hay Spreader.*



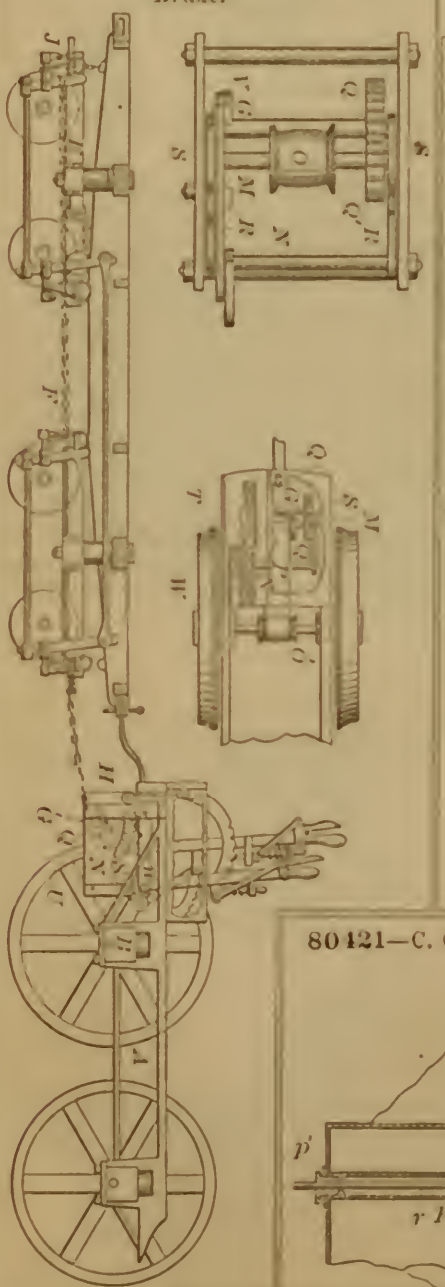
80416—J. W. Lowrey—*Cooking Stove.*



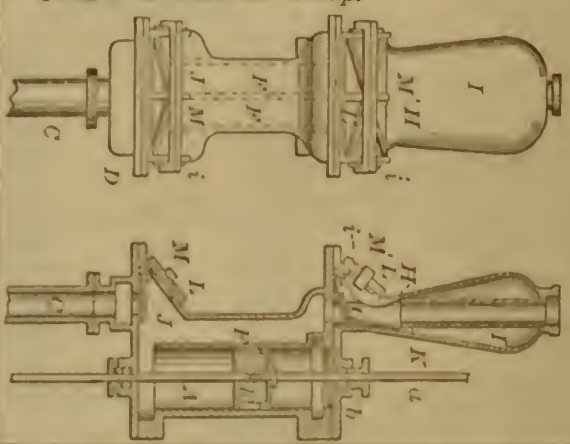
80417—R. M. Marchant—*Railroad Rail.*



80419—S. McCambridge—*Car Brake.*



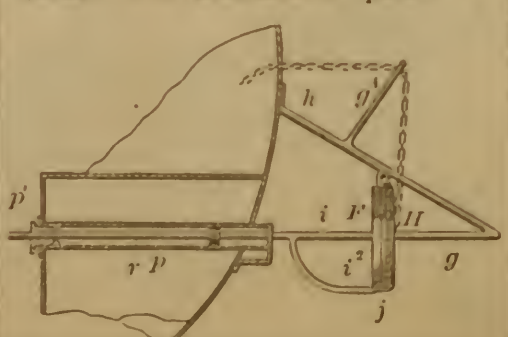
80418—G. Marshall—*Pump.*



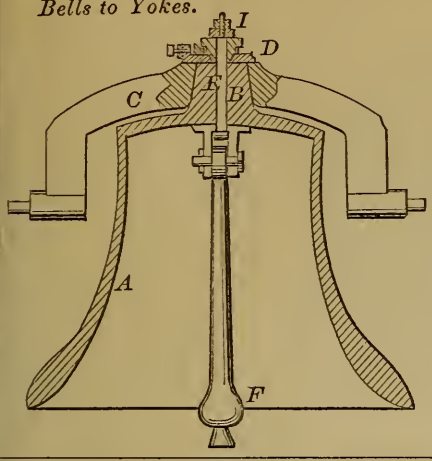
80424—C. E Palmer—*Shirt Collar Fastening.*

80420—McCambridge & Martin—*Car Brake.*

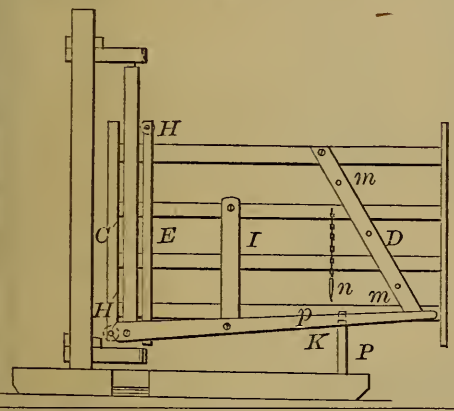
80421—C. G. Meinhardt—*Propeller.*



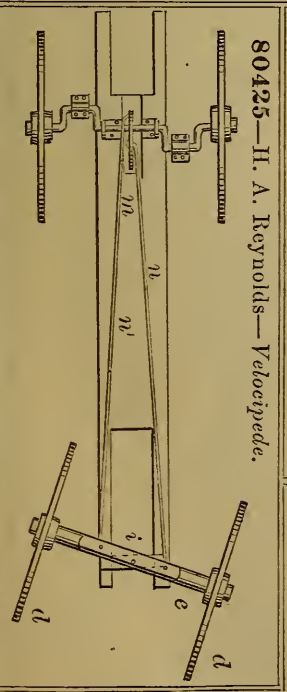
80422—G. R. Mencely—*Attaching Bells to Yokes.*



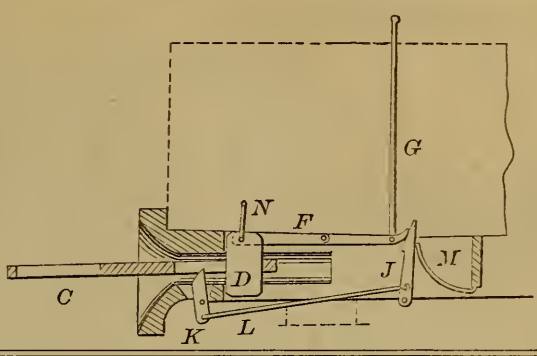
80423—A. B. Murray—*Snow Gate.*



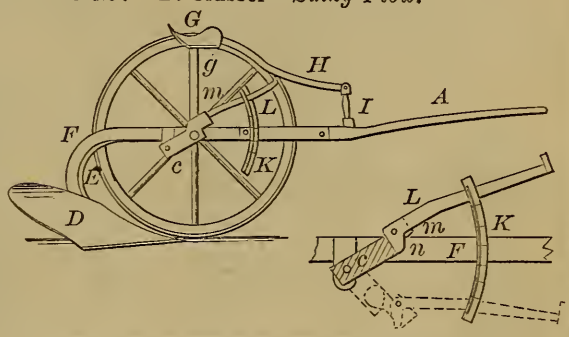
80425—H. A. Reynolds—*Velocipede.*



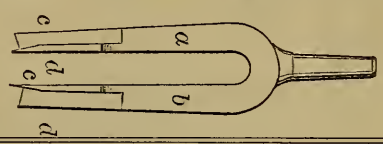
80426—Scott & Trimmer—*Car Coupling.*



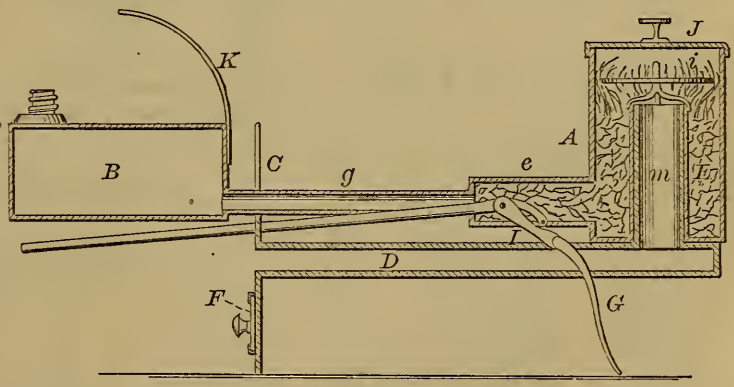
80427—B. Slusser—*Sulky Plow.*



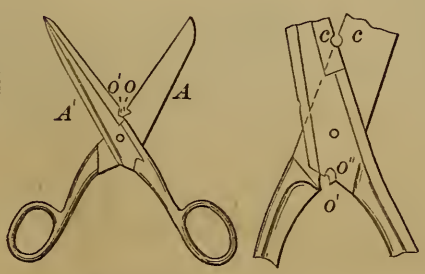
80428—J. M. Smith—*Mortising Chisel.*



80429—V. G. Tansey—*Fire Kindler.*

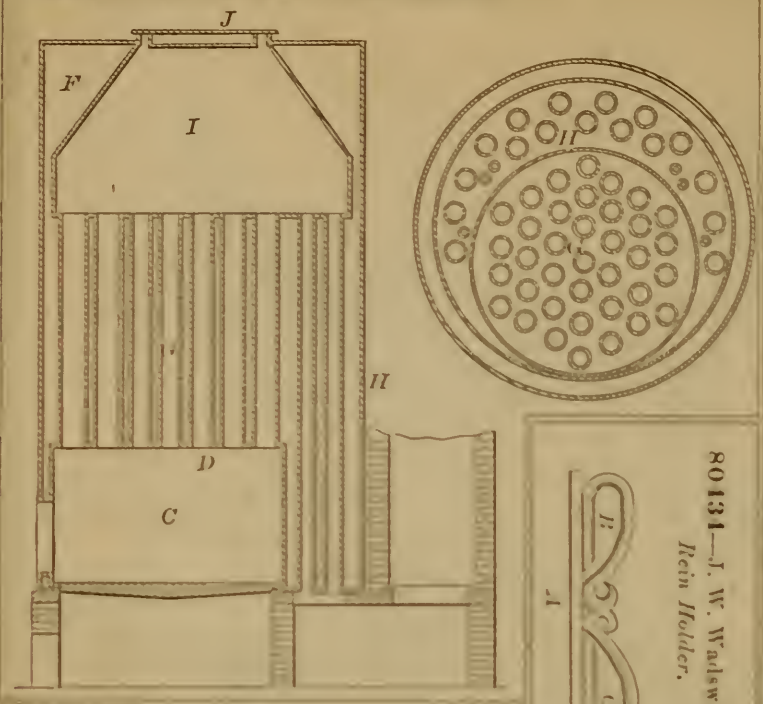


80432—A. Thayer—*Scissors and Shears.*



80430—E. P. Taylor—*Button Boot.*

80431—Taylor & Sloat—*Steam Generator.*

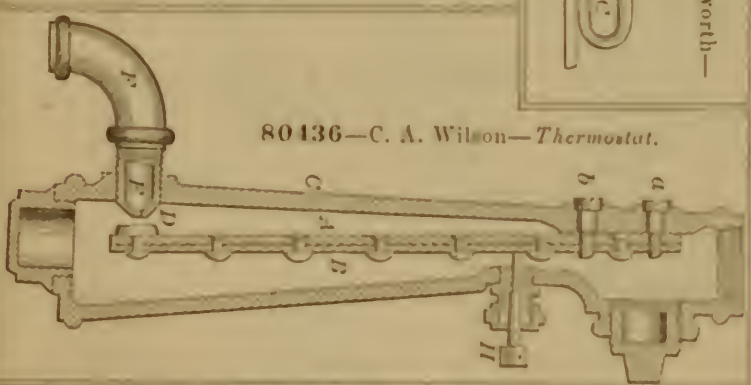


80433—J. Umbach—*Back Pad to Harness.*

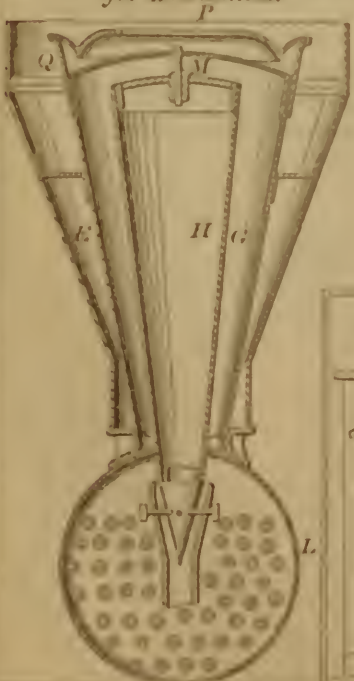
80434—J. W. Wadsworth—*Rein Holder.*

80435—J. A. Way—*Washer.*

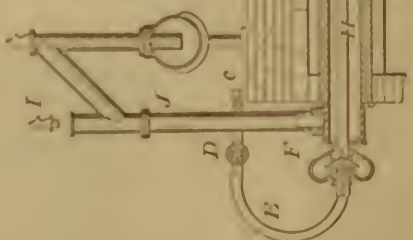
80436—C. A. Wilson—*Thermostat.*



80437—J. Atkins—*Smoke Stack for Locomotives.*

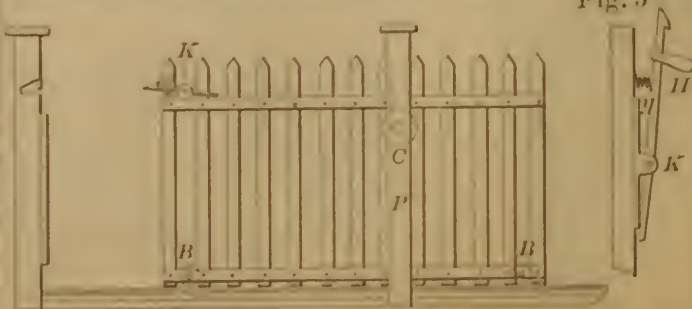


80438—Bassett & Smith—*Removing Carbon from Gas Retorts.*

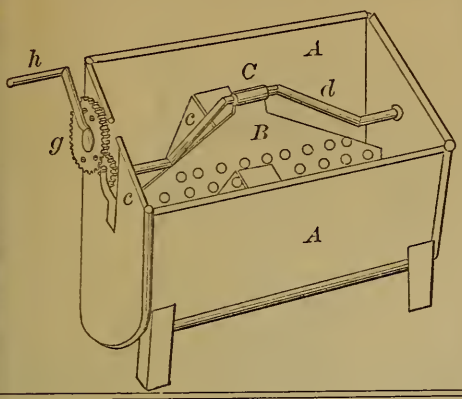


80439—G. W. Blackwell—*Farm Gate.*

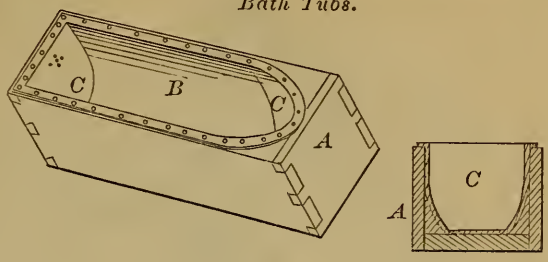
Fig. 5



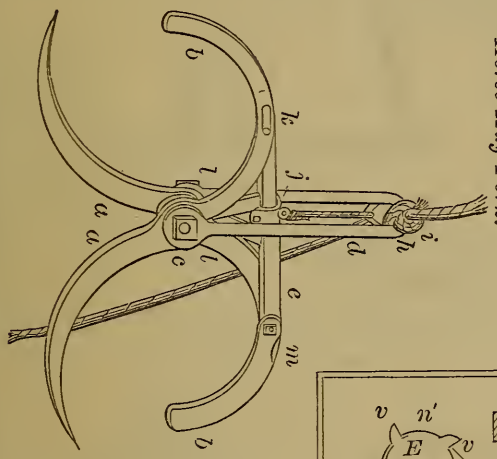
80440—L. T. Blake—*Egg Beater.*



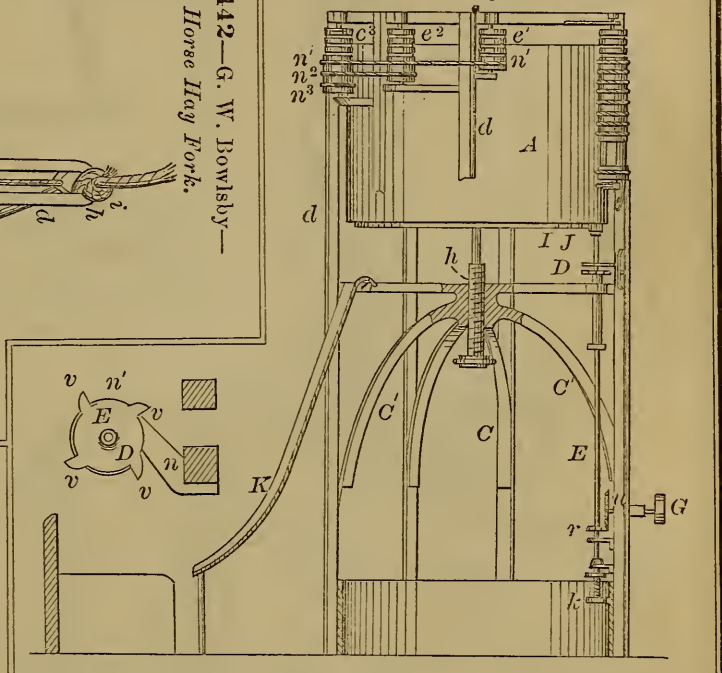
80441—C. A. Blessing—*Sheet Metal Lining for Bath Tubs.*



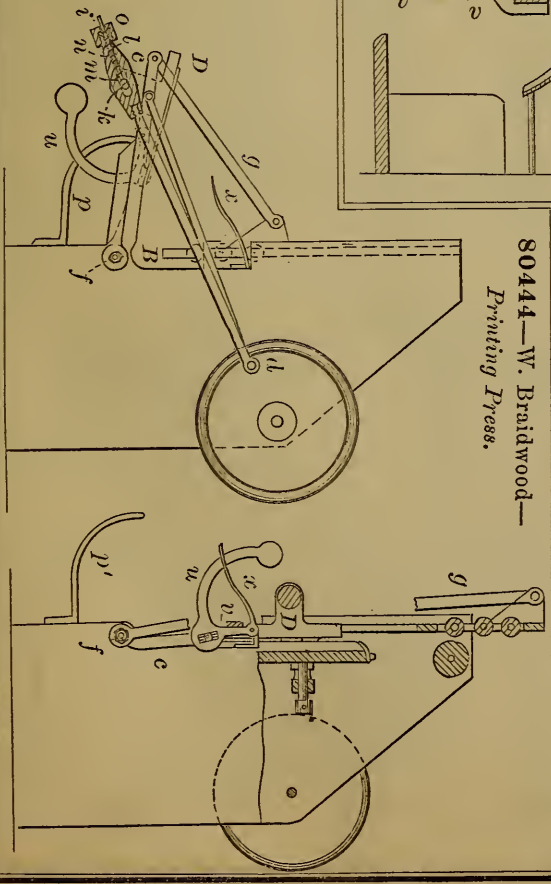
80442—G. W. Bowlsby—*Horse Hay Fork.*



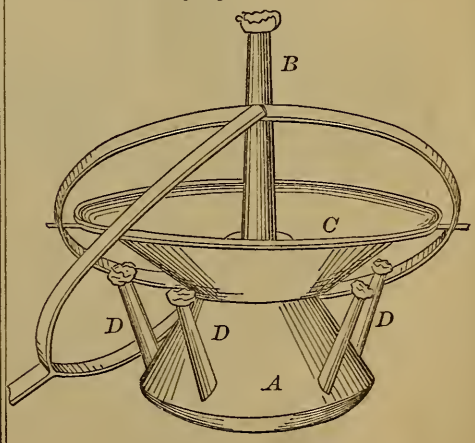
80443—M. D. Bradley—*For Cutting and Assorting Broom Corn.*



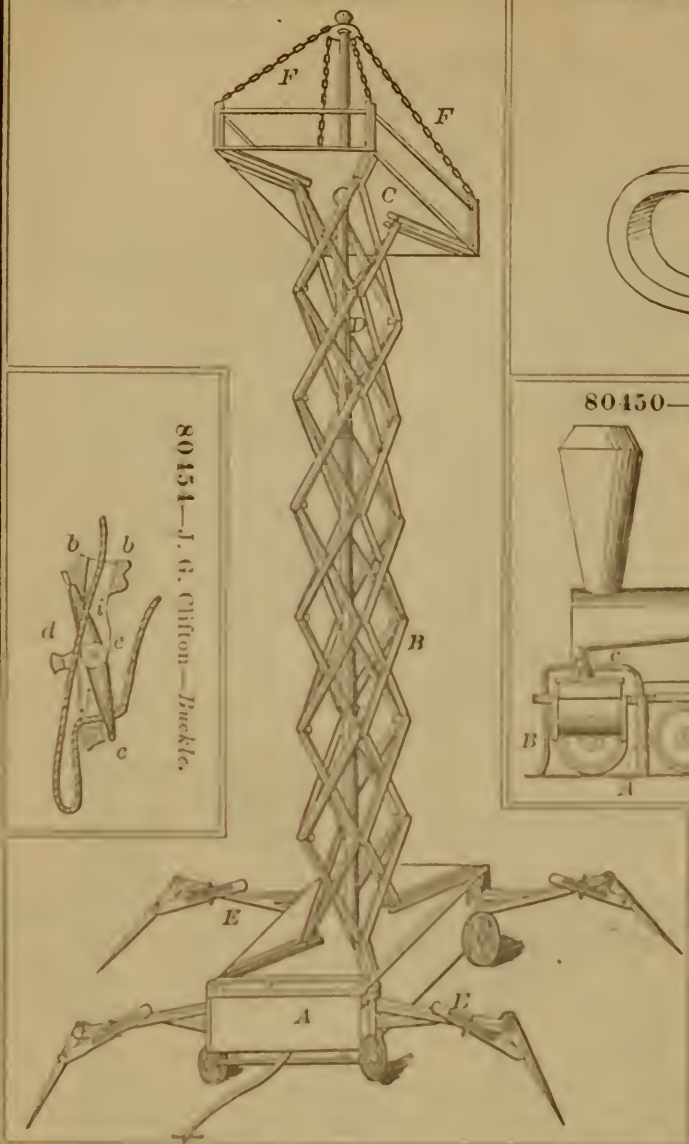
80444—W. Braidwood—*Printing Press.*



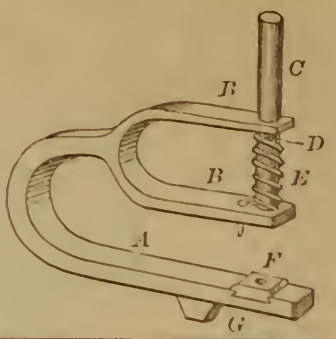
80446—F. M. Briggs—*Lamp for Destroying Insects.*



80445—P. Brand—*Elevator.*

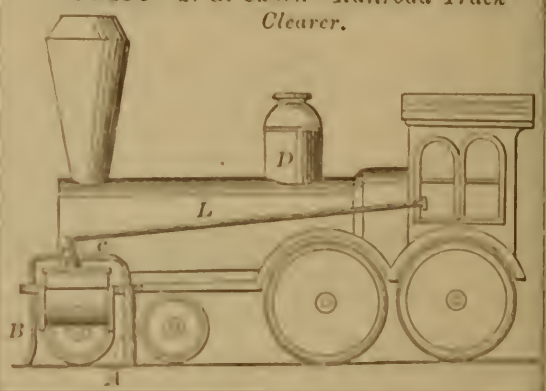


80449—M. V. Bryant—*Spring Punch.*

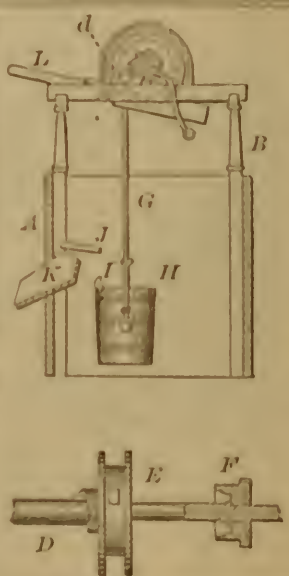


80454—J. G. Clifton—*Buckle.*

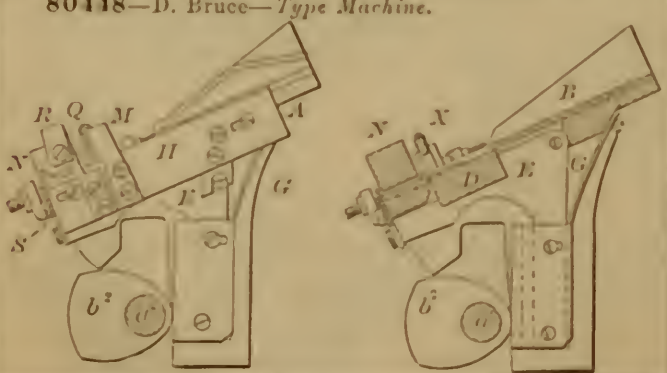
80450—S. G. Cabell—*Railroad Track Clearer.*



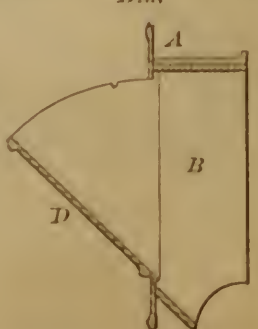
80447—G. H. Bristol—*Water Elevator.*



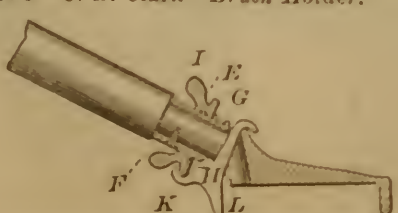
80448—D. Bruce—*Type Machine.*



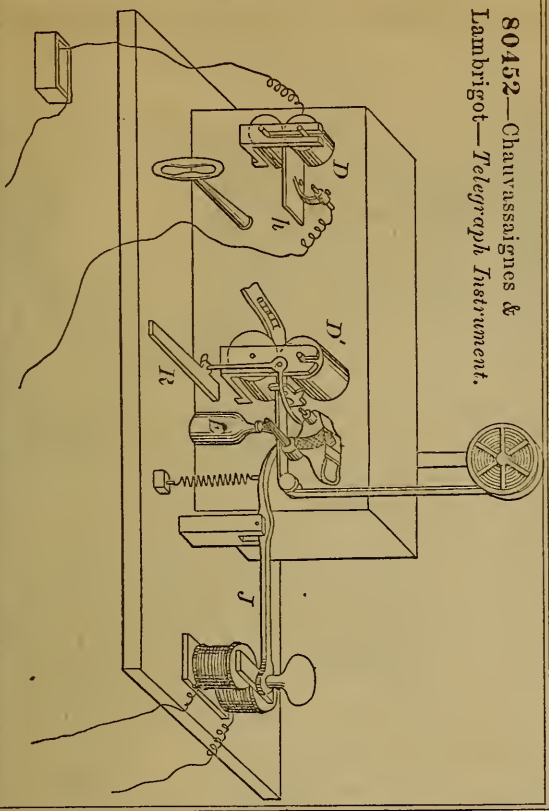
80451—W. W. Chase—*Ash Bin.*



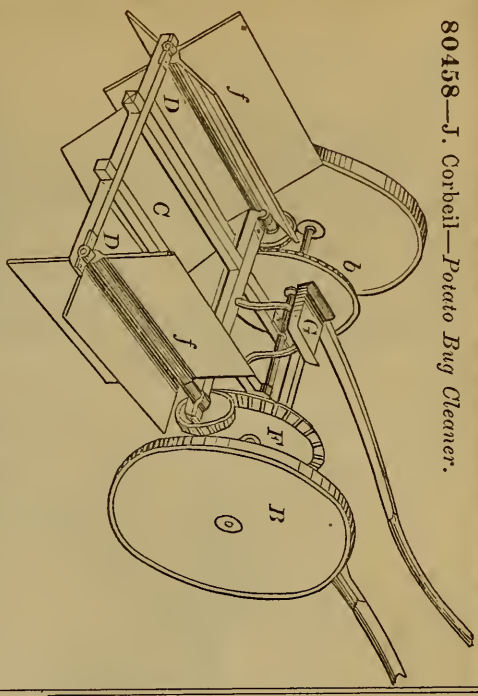
80453—C. B. Clark—*Brush Holder.*



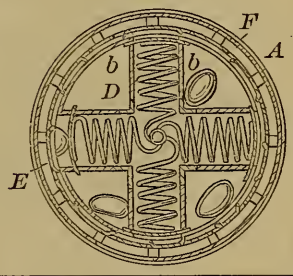
80452—Chauvassaignes & Lambrigot—*Telegraph Instrument.*



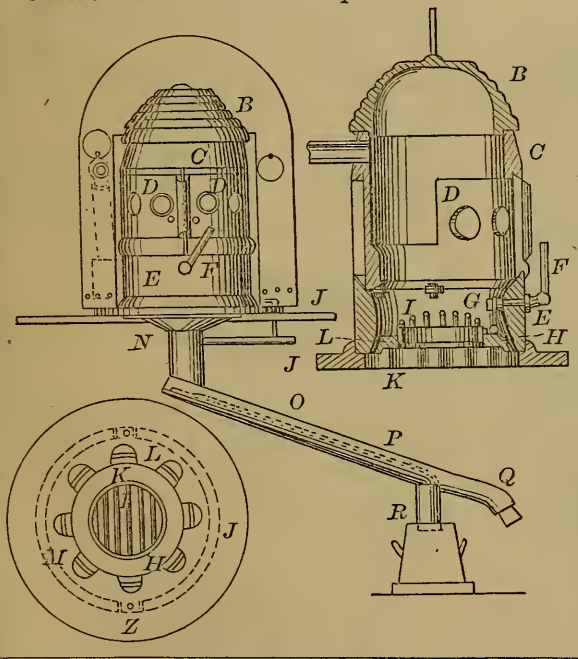
80458—J. Corbeil—*Potato Bug Cleaner.*



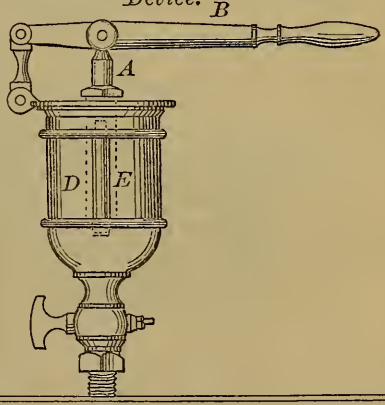
80456—J. L. & D. H. Coles—*Nutmeg Grater.*



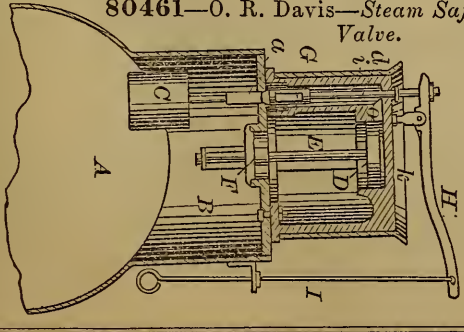
80455—W. B. Coates—*Fireplace.*



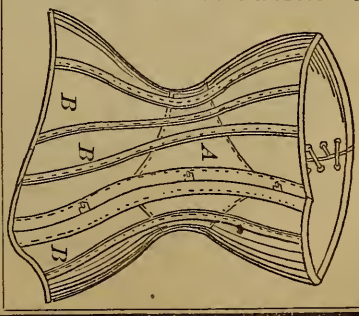
80457—F. Colligon—*Lubricating Device.*



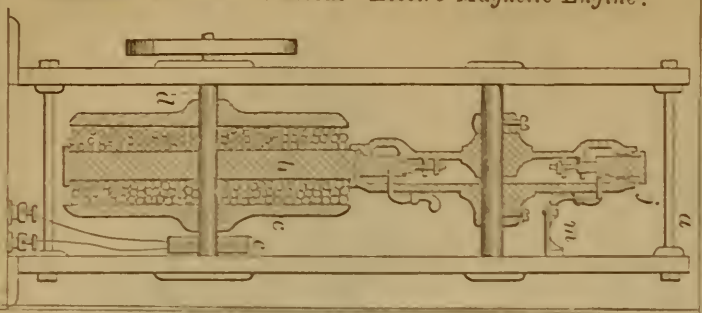
80461—O. R. Davis—*Steam Safety Valve.*



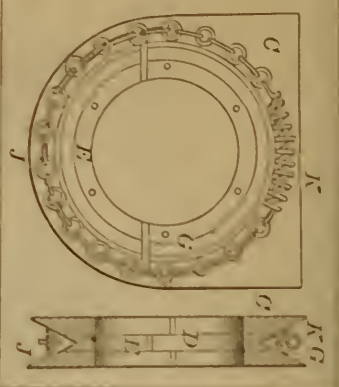
80462—T. B. De Forest—*Corset.*



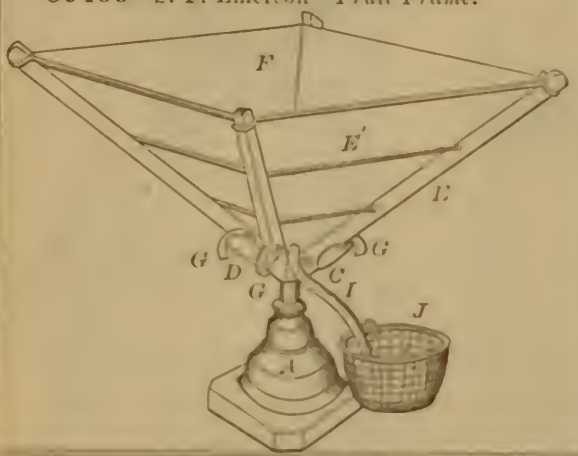
80463—A. J. B. De Morat—*Electro-Magnetic Engine.*



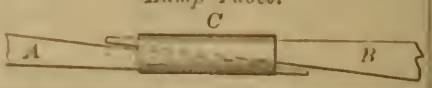
80465—S. R. Dummer—*Packing for Car Axles and Boxes.*



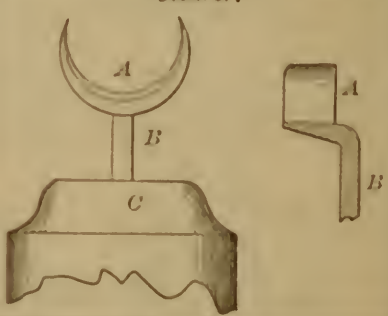
80466—S. F. Emerson—*Fruit Frame.*



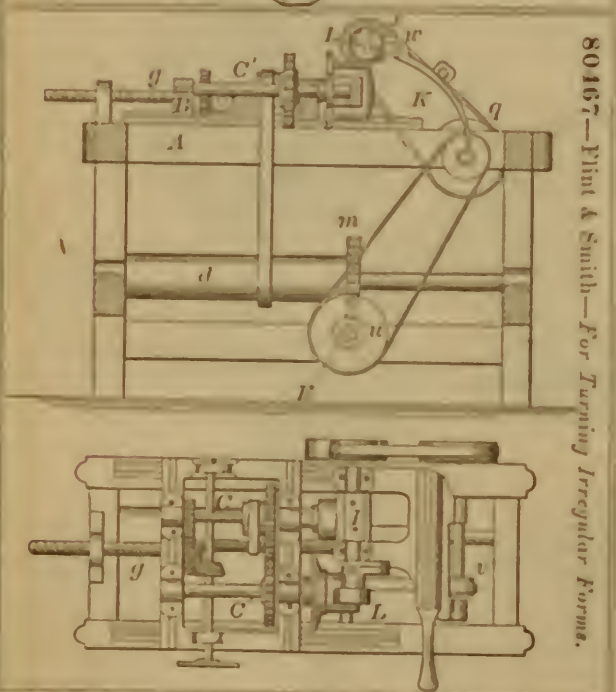
80464—T. B. Doolittle—*Forming Lamp Tubes.*



80468—H. Fornerook—*Hop Pole Clearer.*

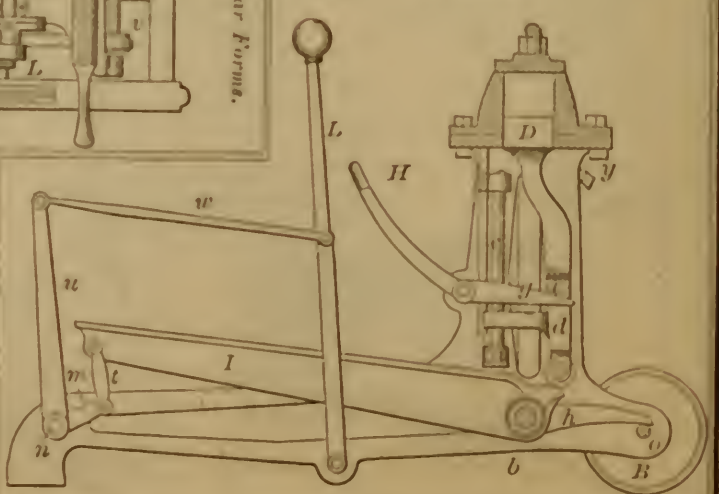


80467—Flint & Smith—*For Turning Irregular Forms.*

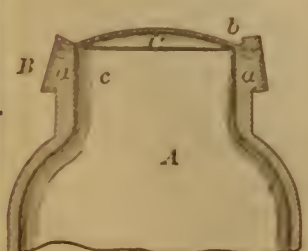


80469—H. G. Fuhrmann—*Filter for Faucets.*

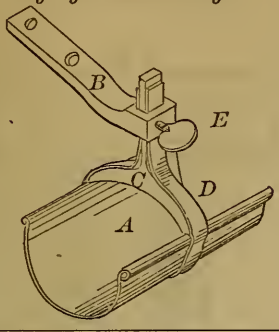
80470—Gano & Miller—*Brick Machine.*



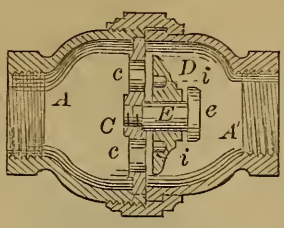
80472—T. Gibson—*Fruit Jar.*



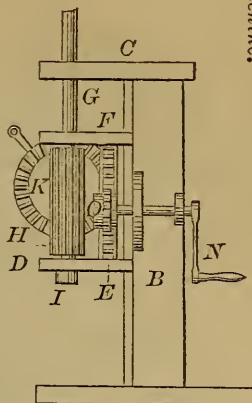
80473—Gilbert & Elberson—*Hanging Eaves Troughs.*



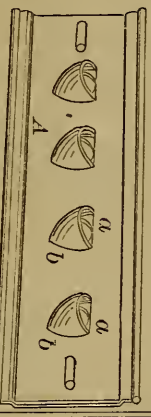
80474—Good & Strouse—*Valve.*



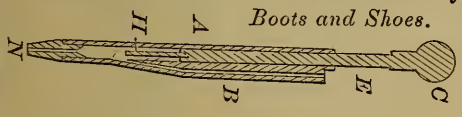
80475—J. Goodin—*Boring and Drilling Machine.*



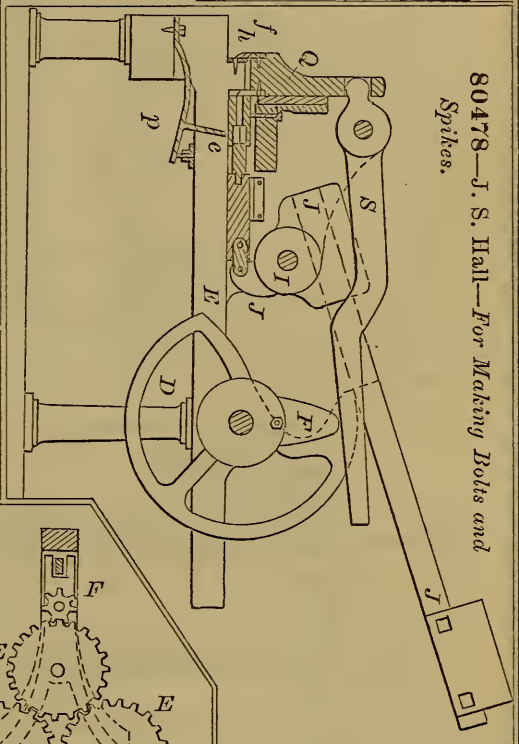
80476—W. Hailes—*Damper.*



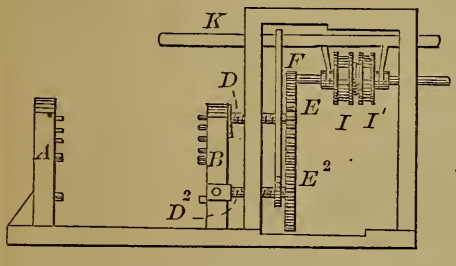
80477—E. Hale—*Hand Nail Driver for Boots and Shoes.*

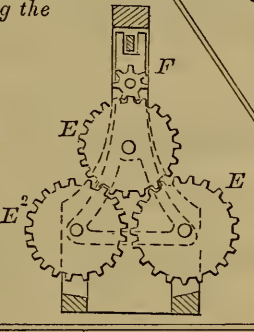


80478—J. S. Hall—*For Making Bolts and Spikes.*

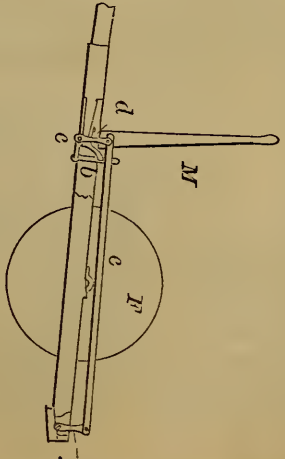


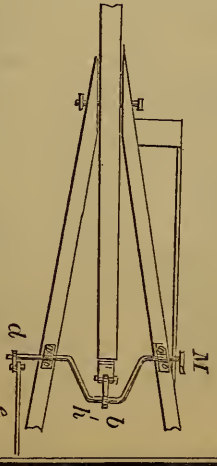
80482—E. & B. Holmes—*For Leveling the Staves in Barrels.*



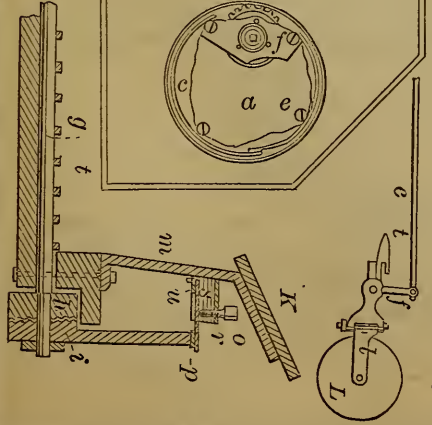


80479—J. Harris—*Harvester.*

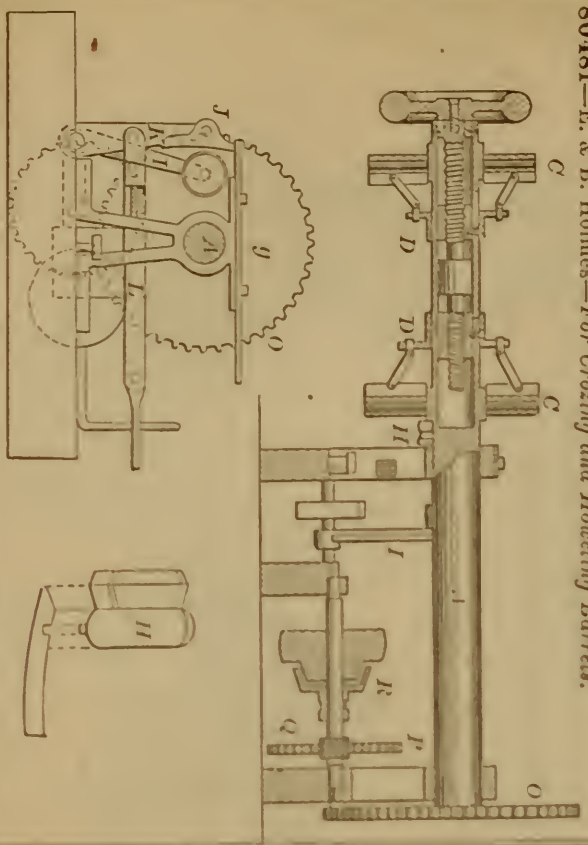




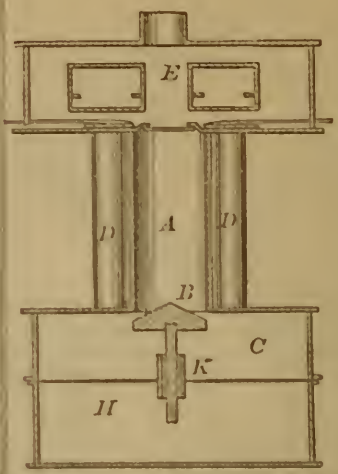
80480—A. J. Harrison—*Watch.*



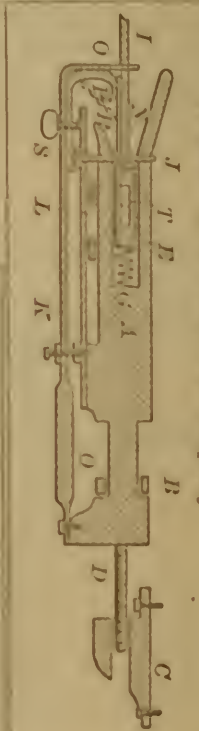
80481—E. & B. Holmes—*For Crozing and Hooping Barrels.*



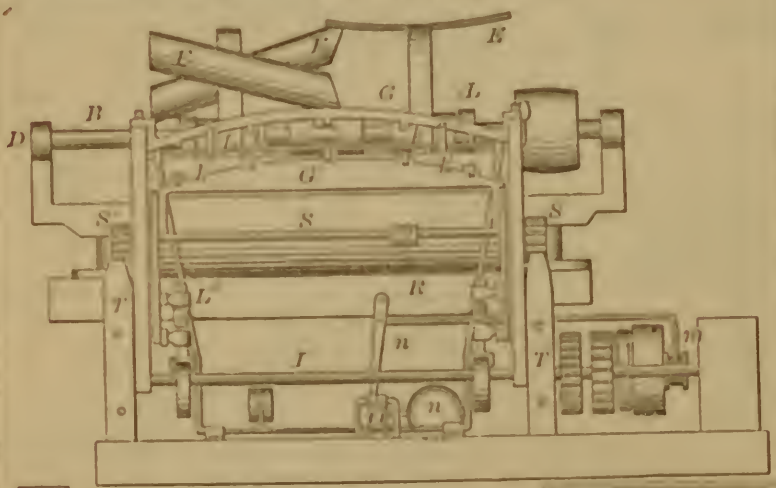
80484—E. Hosford—*Range.*

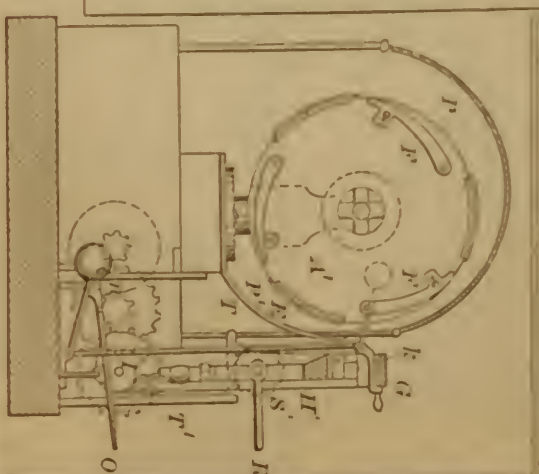


80486—H. B. Howe—*Car Coupling.*

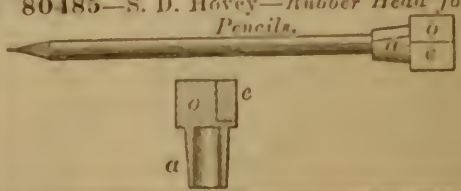


80483—E. & B. Holmes—*For Jointing Staves.*

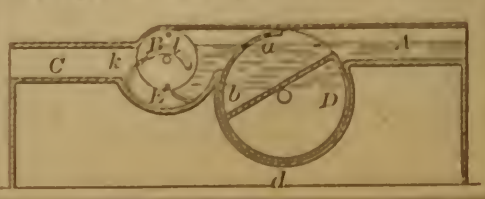




80485—S. D. Hovey—*Rubber Head for Pencils.*



80488—G. L. Jaeger—*Water Meter.*



80487—E. W. Jackson—*Rotary Steam Engine.*

Plate IX and X

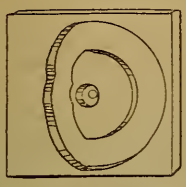


Plate XIII and XIV

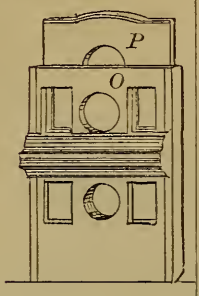


Plate VI

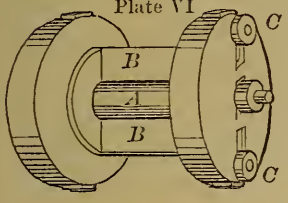


Plate I

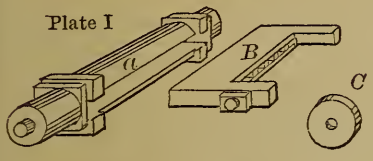


Plate XV

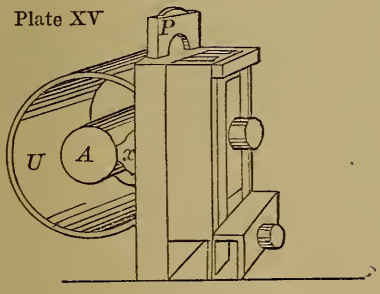
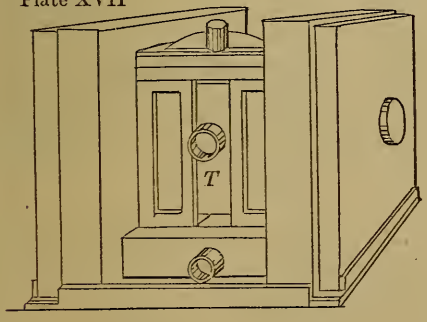
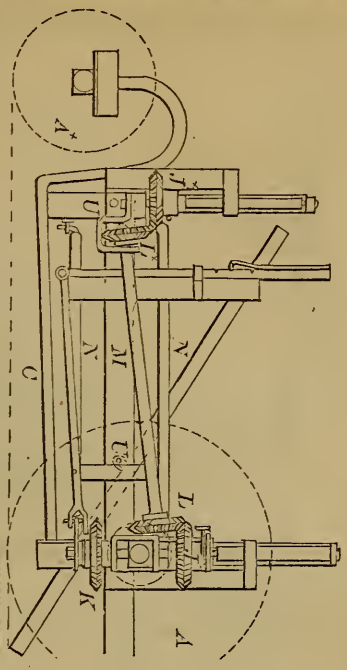
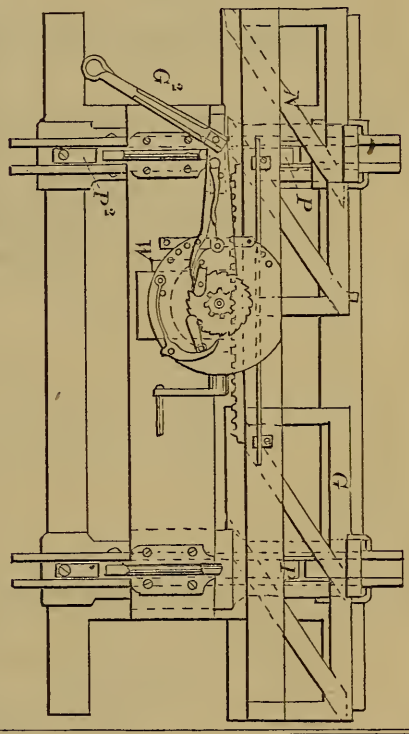


Plate XVII

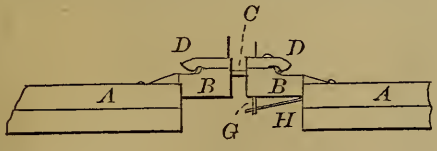


80489—G. W. Janvrin—*Wagon.*

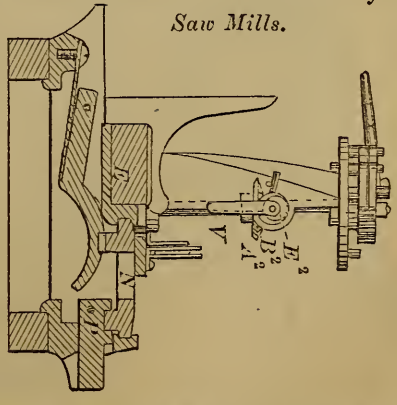




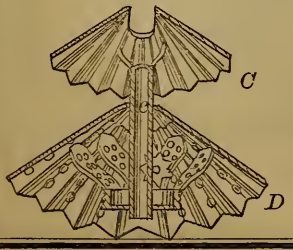
80493—J. A. Manning—*Car Coupling.*



80491—D. Lane—*Head Block for Saw Mills.*

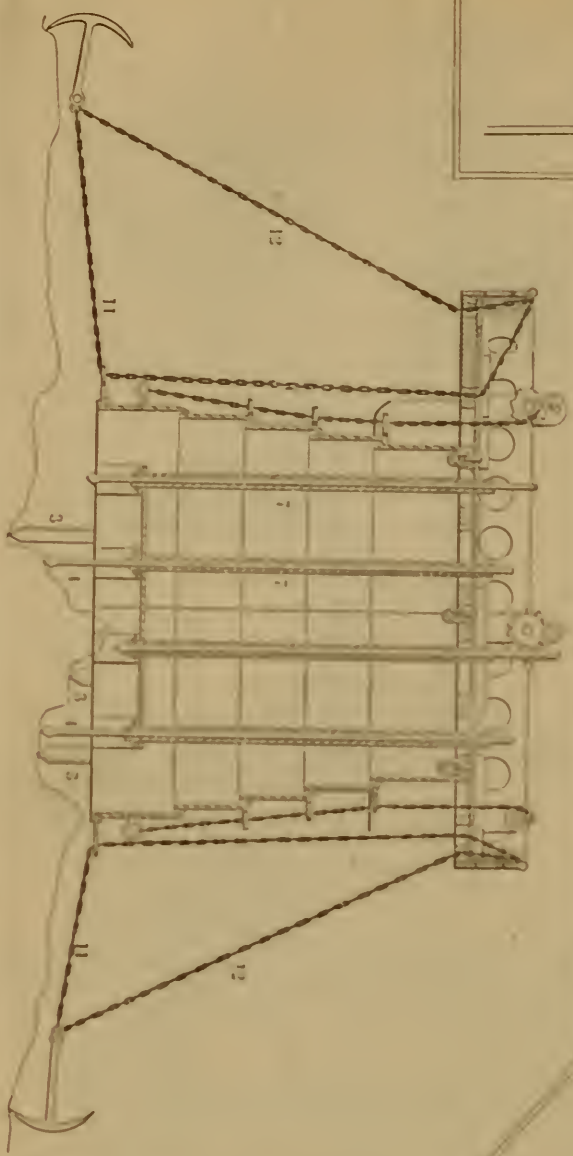


80494—J. Minifie—*Lamp Burner.*

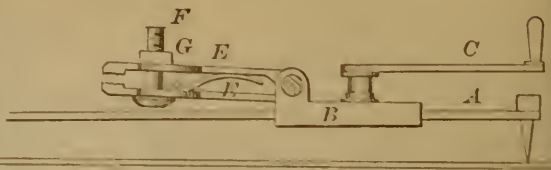


80490—H. Kellogg—*Hat.*

80492—S. Lewis—*Still Water Dam.*

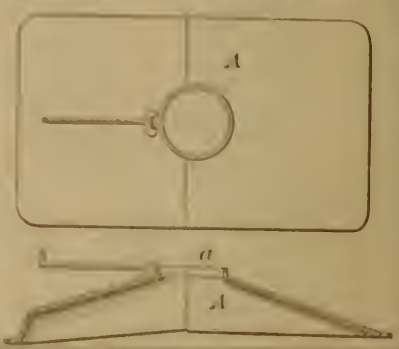


80495—W. Minster—*Carpet Stretcher.*

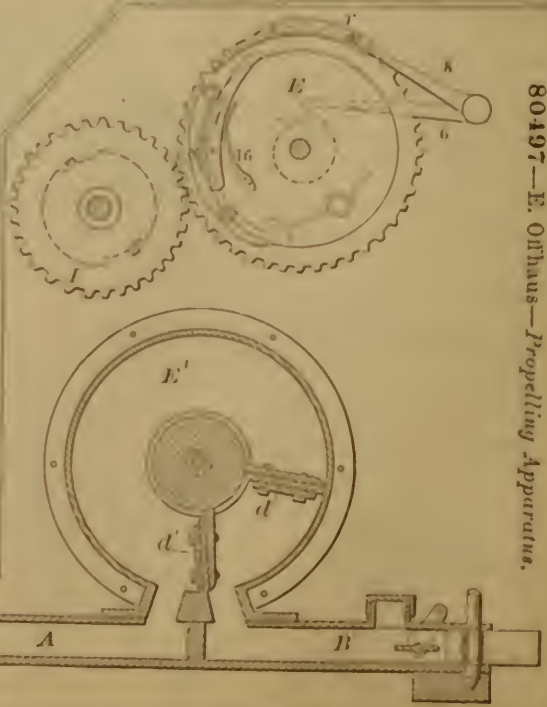


80496—R. Nelson—*Screen for Wash Stands.*

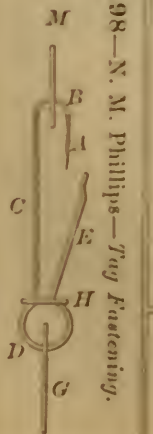
80499—L. Portner—*Reflector.*



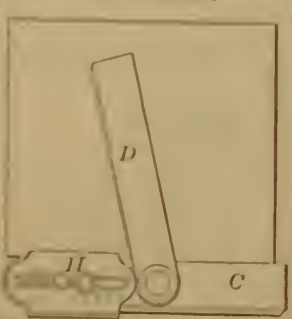
80497—E. Olthaus—*Propelling Apparatus.*



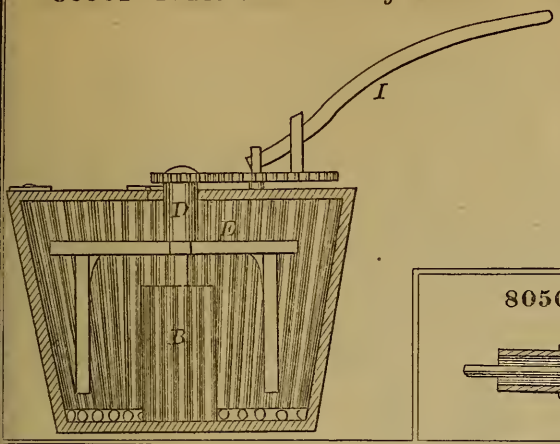
80498—N. M. Phillips—*Tag Fastening.*



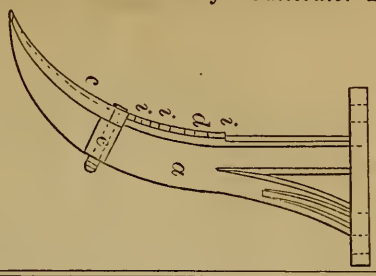
80500—D. J. Pratt—*Parallel Ruler.*



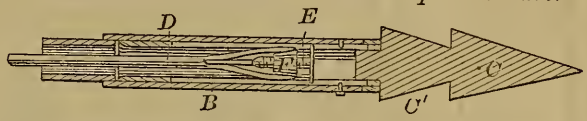
80501—P. Prentiss—*Washing Machine.*



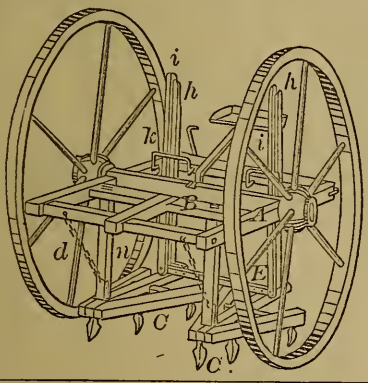
80503—W. B. Ready—*Cultivator Teeth.*

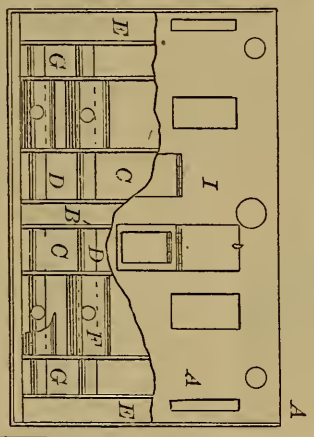


80504—Rhoades & Adams—*Deep Well Tube.*

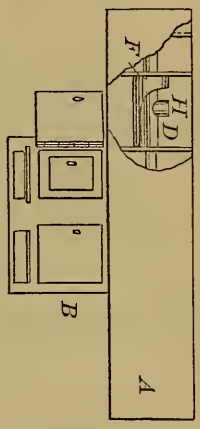


80502—H. Preston—*Cultivator.*

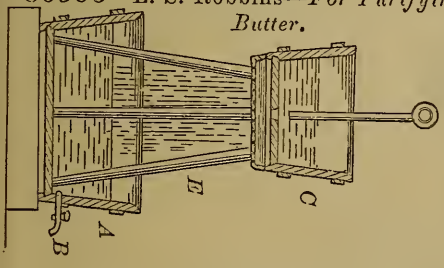




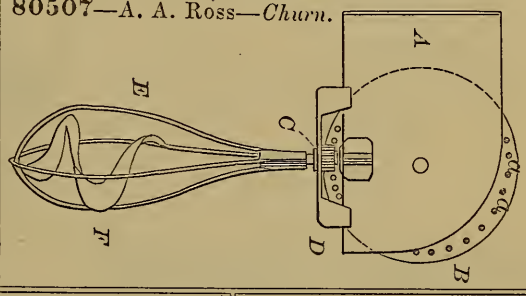
80505—J. Rice—*Car Heater.*



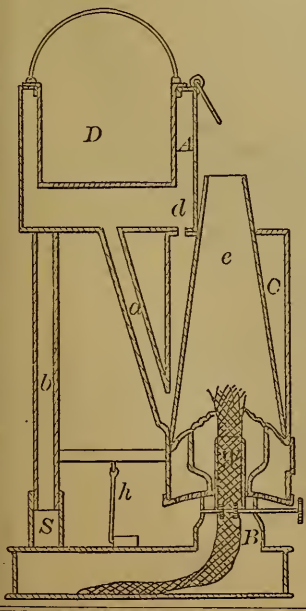
80506—L. S. Robbins—*For Purifying Butter.*



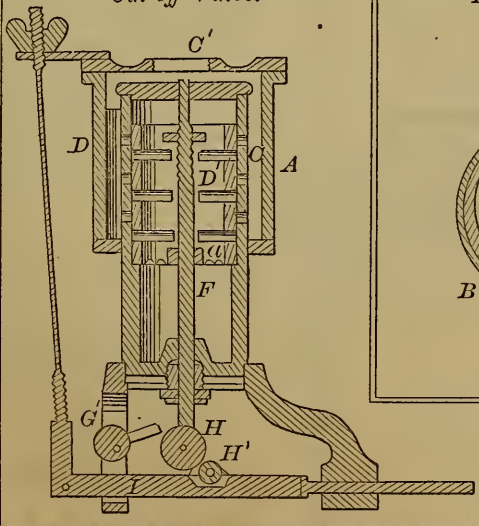
80507—A. A. Ross—*Churn.*



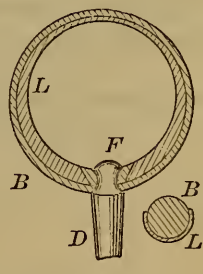
80508—W. F. Rossman—*Kerosene Lamp Boiler.*



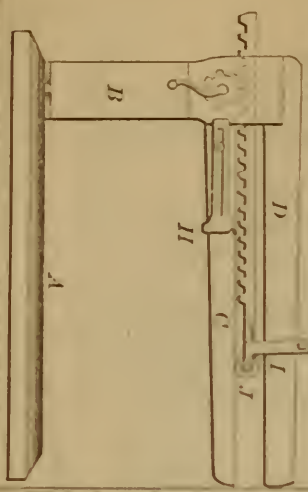
80509—R. Sanderson—*Cut-off Valve.*



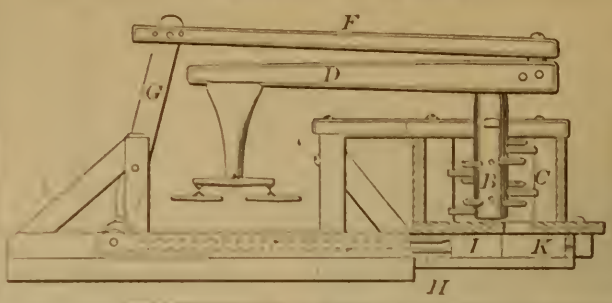
80510—P. Schoonmaker—*Bridle Bit.*



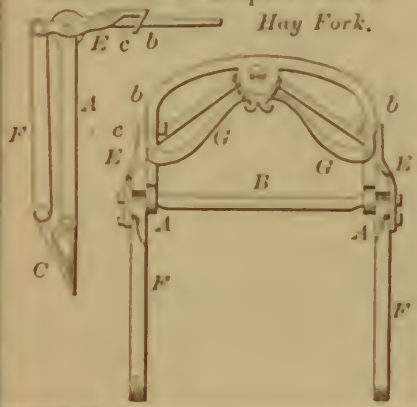
80511—Schumacher & Upjohn—*For Pressing and Grooving Seams in Tin Ware.*



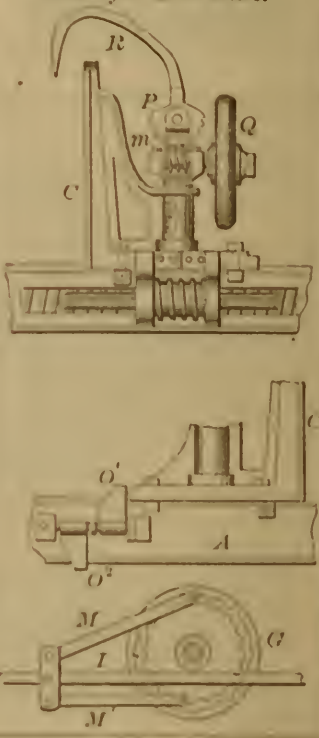
80512—J. Shellaberger—*Tile Machine.*



80513—H. L. Sheperd—*Horse Hay Fork.*

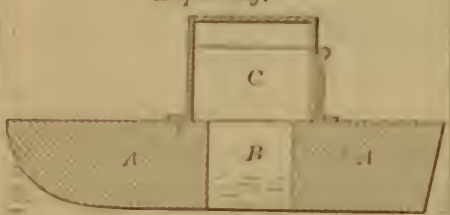


80514—S. R. Smith—*Head Block for Saw Mills.*

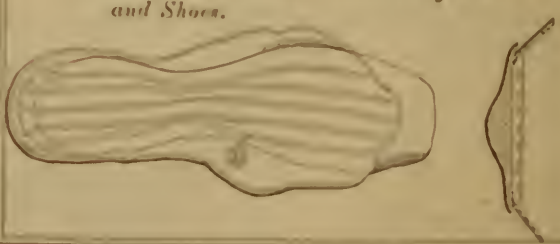


80515—A. Steinbök—*Boring Tool.*

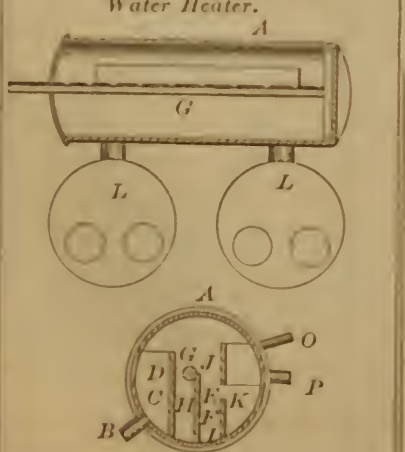
80517—H. S. Thayer—*Submarine Exploring.*



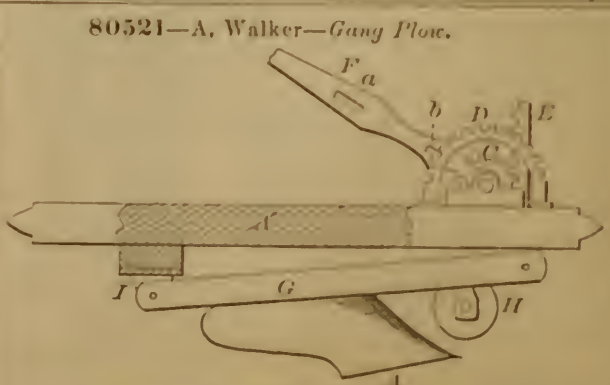
80518—E. Thomas—*Ventilating Boots and Shoes.*



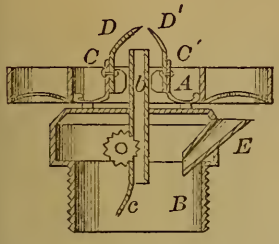
80516—S. Stucky—*Feed Water Heater.*



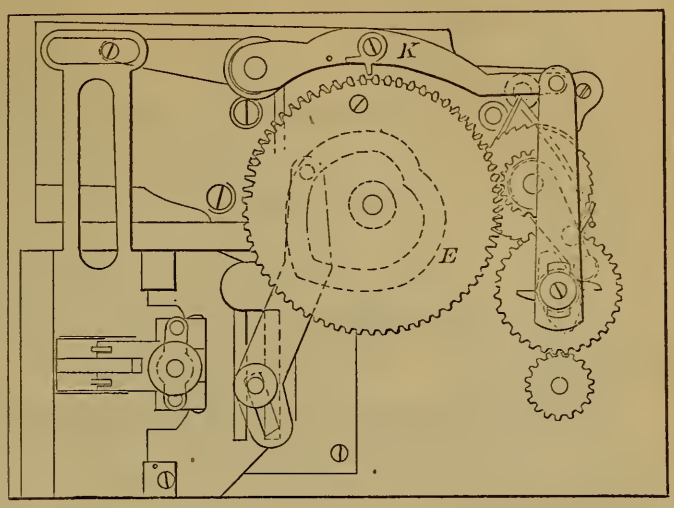
80521—A. Walker—*Gang Plow.*



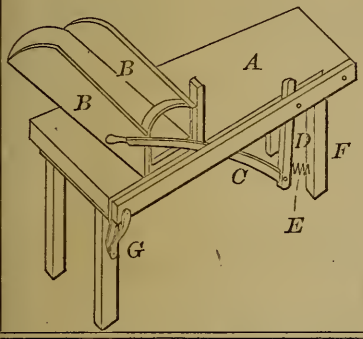
80519—W. Totheroh—*Lamp.*



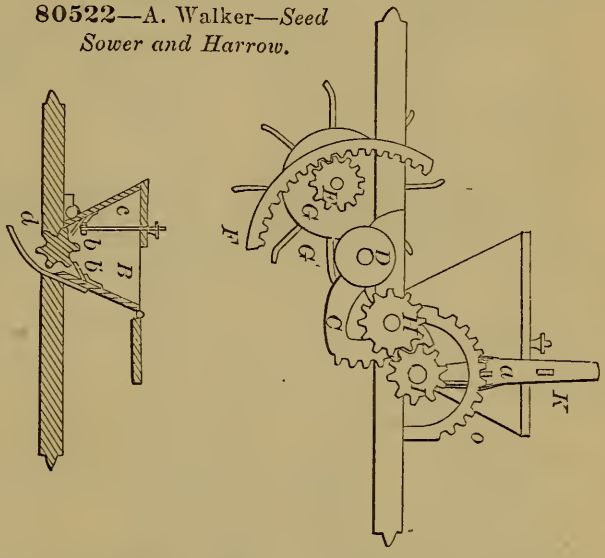
80520—K. Vogel—*Button Hole Sewing Machine.*



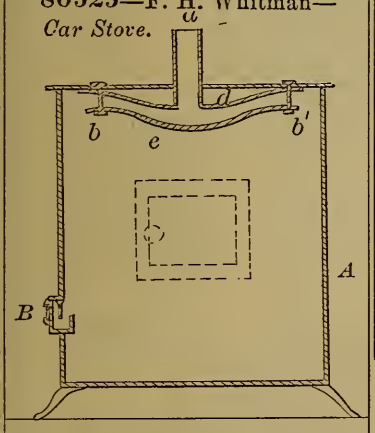
80524—Watson & Robinson—Robinson—*Straw Cutter.*



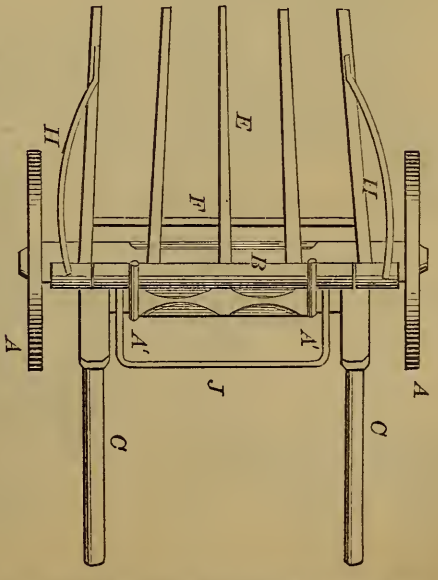
80522—A. Walker—*Seed Sower and Harrow.*



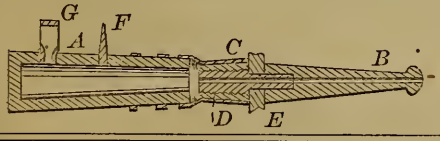
80525—F. H. Whitman—*Car Stove.*



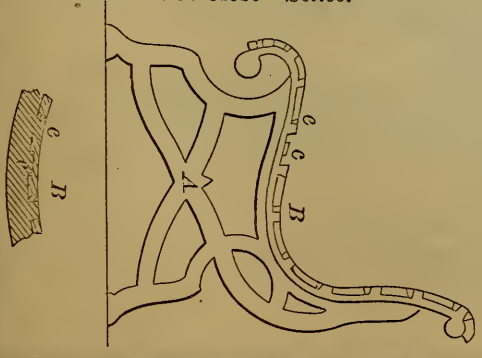
80523—Warnock & Abbey—*Grain Rake.*



80527—M. V. B. Young—*Cigar Holder.*

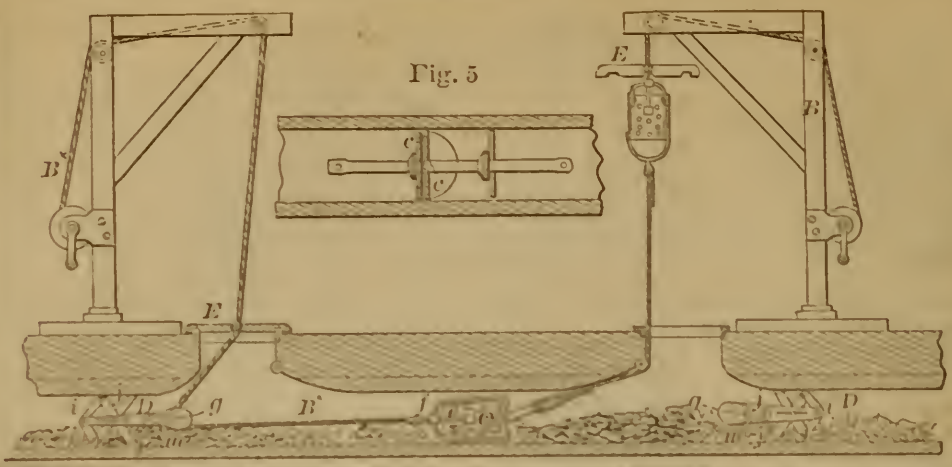


80528—T. J. Close—*Settee.*

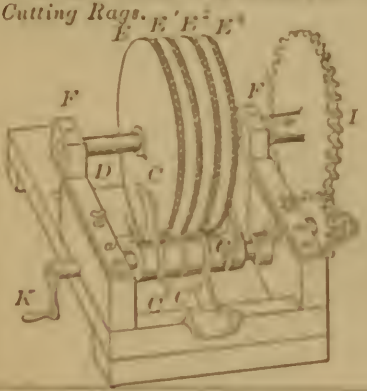


80526—C. Williams—*For Cleaning Sewers.*

Fig. 5



80531—Bennett & Anderson—*For Cutting Rags.*



80530—E. M. Barnum—*Elevated Railway.*

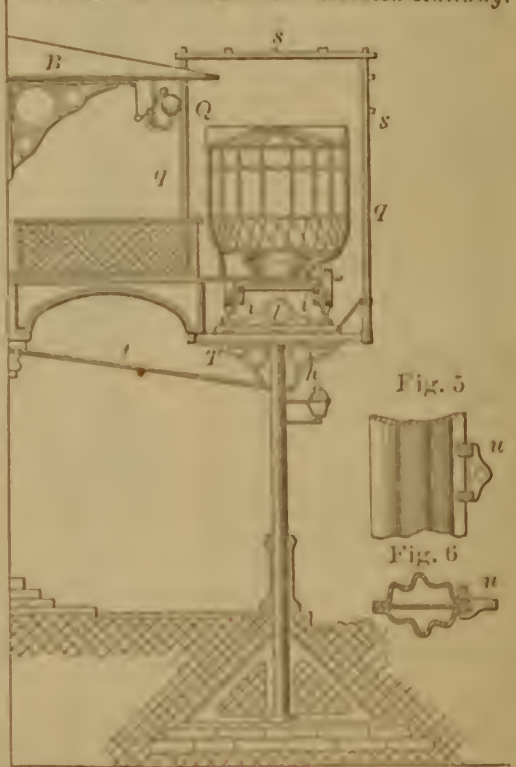
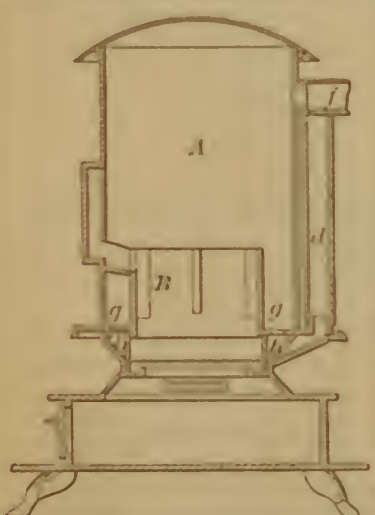


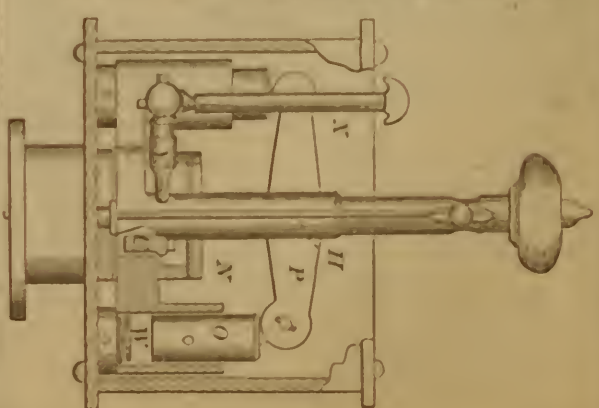
Fig. 5

Fig. 6

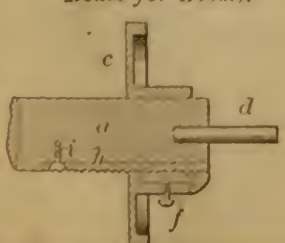
80532—D. B. Cox—*Coal Stove.*



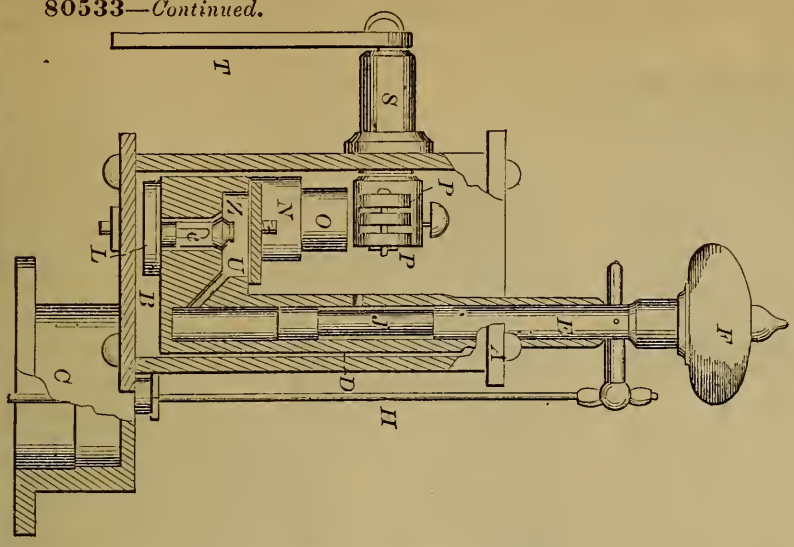
80533—C. G. Cross—*Steam Engine Governor.*



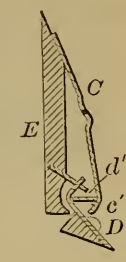
80529—B. A. Bailey—*Yarn Beam for Looms.*



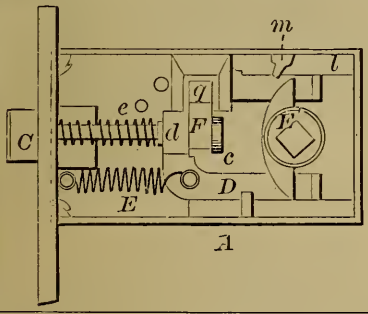
80533—*Continued.*



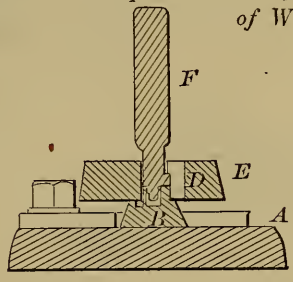
80538—T. S. Fellows—*Weather Strip.*



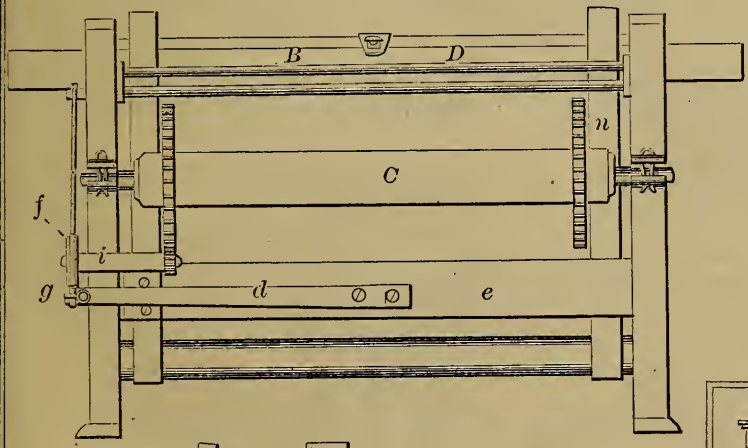
80539—C. R. Fisher—*Reversible Latch.*

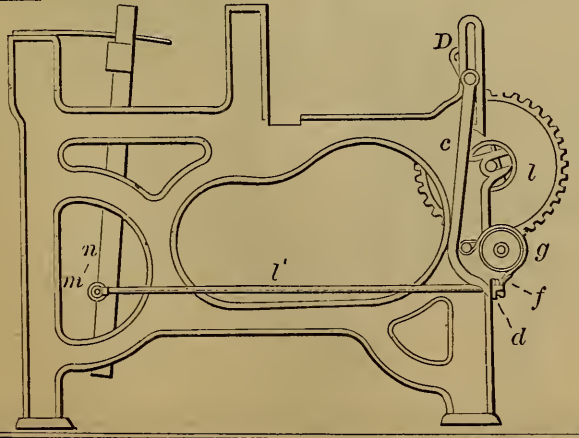


80535—V. Draper—*For Swaging Swivel Eyes of Watch Chains.*

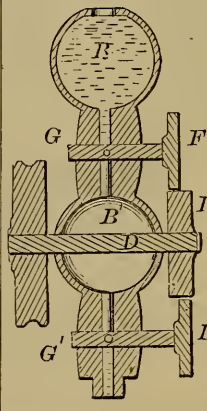


80534—G. Draper—*Let-off for Looms.*

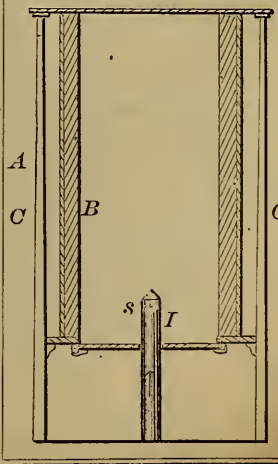




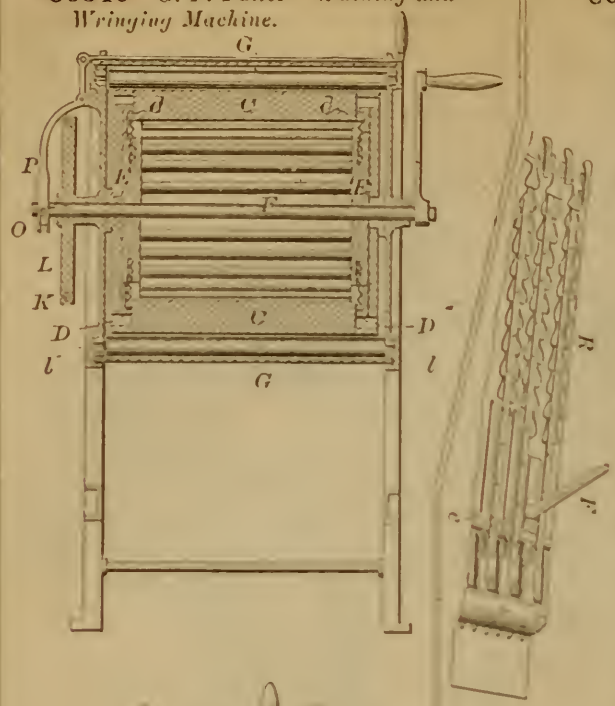
80536—S. Driver—*Boiler Feeder.*



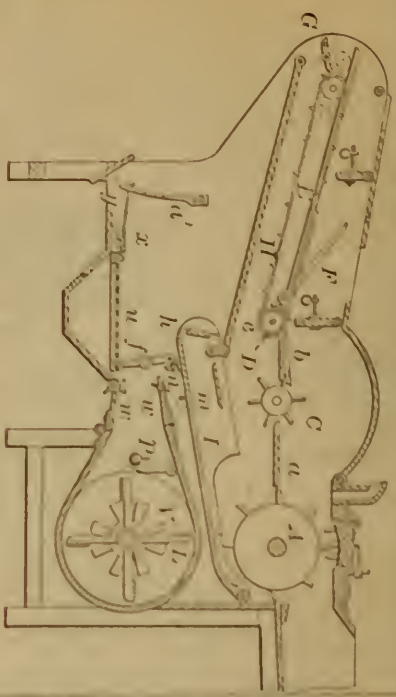
80537—J. H. Eddy—*Cupola Furnace.*

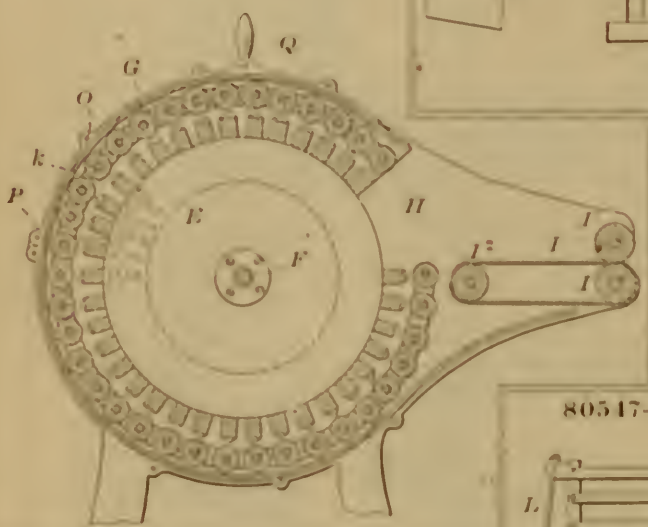


80540—G. P. Fuller—*Washing and Wringing Machine.*



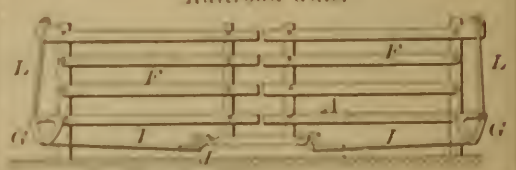
80541—H. Gill—*For Threshing and Cleaning Grain.*



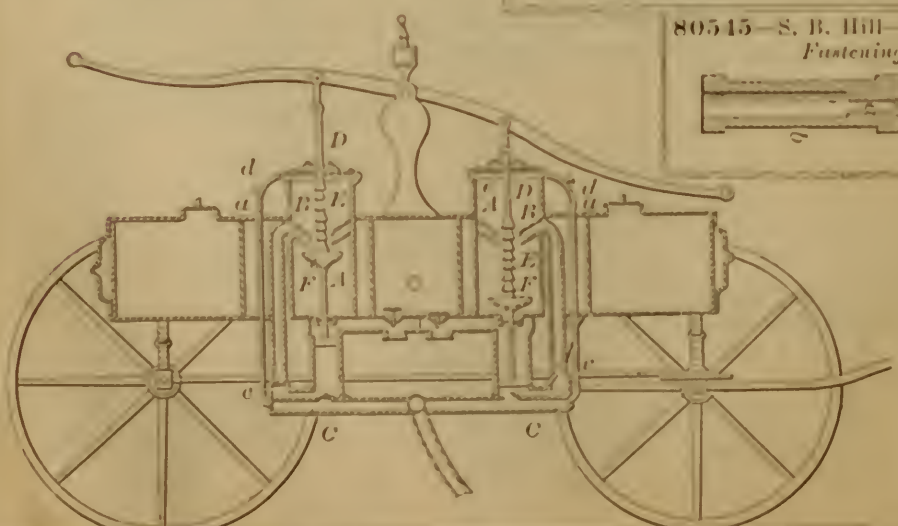


80543—J. Harrison, Jr.—*Steam Generator.*

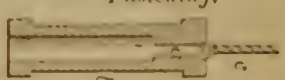
80547—T. R. & W. W. Huntington—*Railroad Gate.*



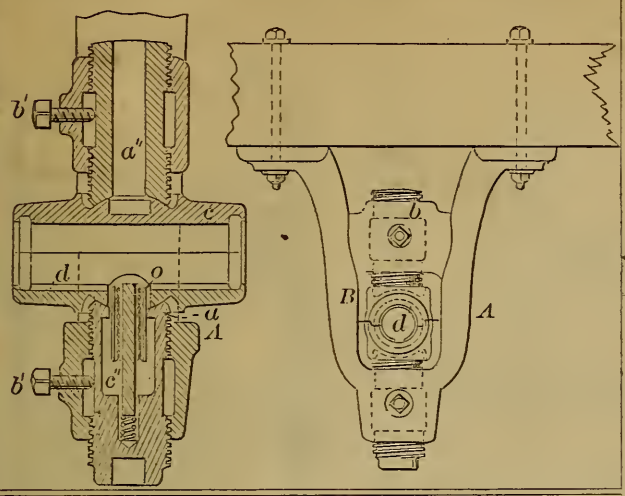
80542—E. Gordon—*Chemical Fire Engine.*



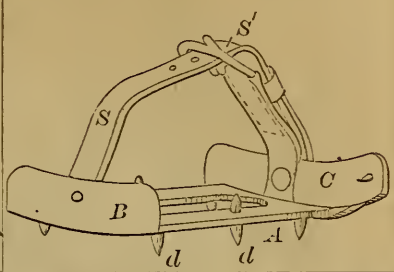
80545—S. B. Hill—*Tassel Fastening.*



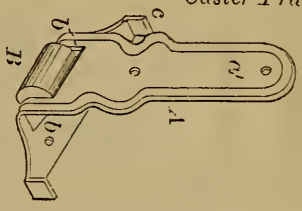
80546—Hubbard & Smith—*Hanger for Shafting.*



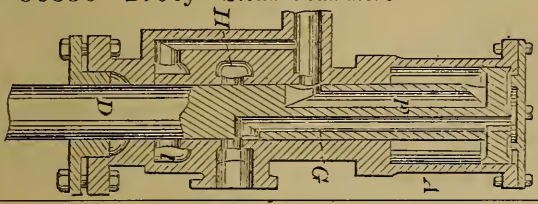
80549—J. U. Johnson—*Boot Protector.*



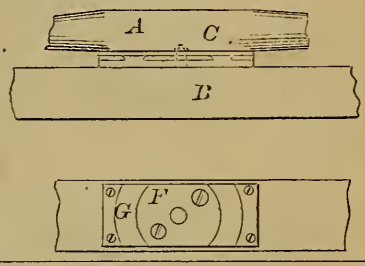
80548—G. B. Jenkinson—*Trunk Caster Frame.*



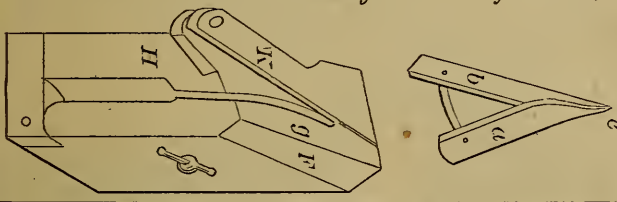
80550—D. Joy—*Steam Hammer.*



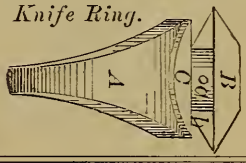
80551—J. W. Kelley—*Whiffletree.*



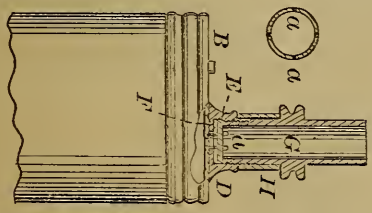
80552—J. Lane—*For Welding the Parts of a Plow.*



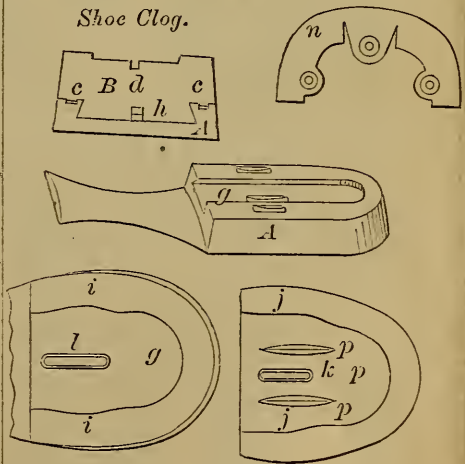
80553—C. B. & W. A. N. Long—*Knife Ring.*



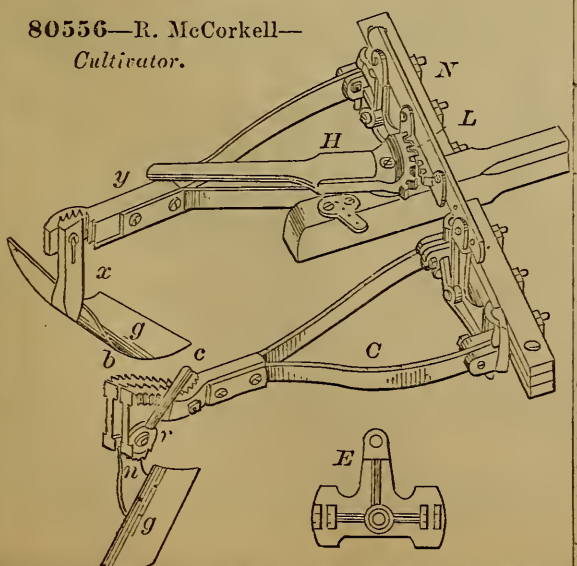
80554—J. B. Lyon—*Fruit Jar.*



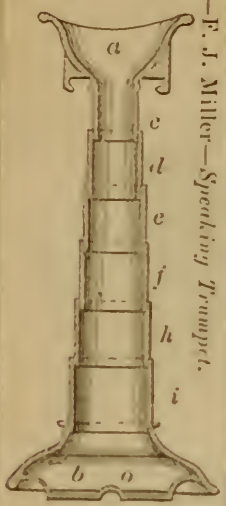
80555—G. W. Martin—*Boot and Shoe Clog.*



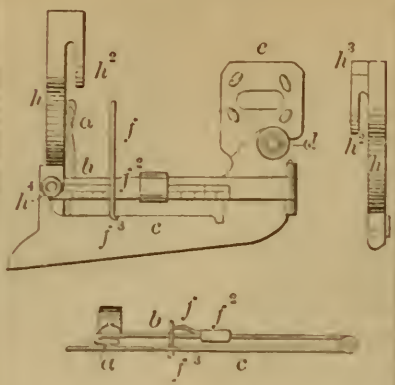
80556—R. McCorkell—*Cultivator.*



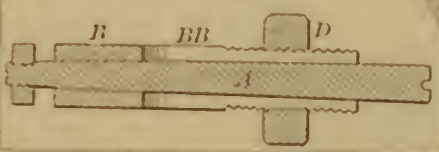
80557—F. J. Miller—*Speaking Trumpet.*



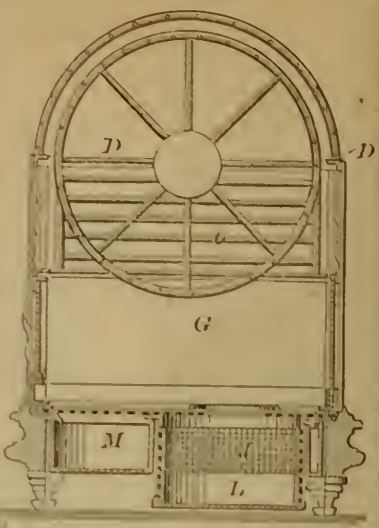
80558—J. Morrison—*Sewing Machine Hemmer.*



80560—A. F. Nagle—*Mandrel.*



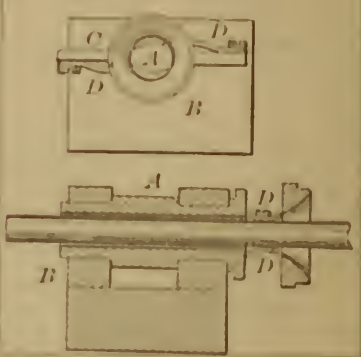
80561—C. L. Osborn—*Bird Cage.*



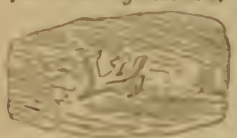
80562—H. H. Palmer—*Seat for Wagons.*

80563—F. J. Peabody—*Button.*

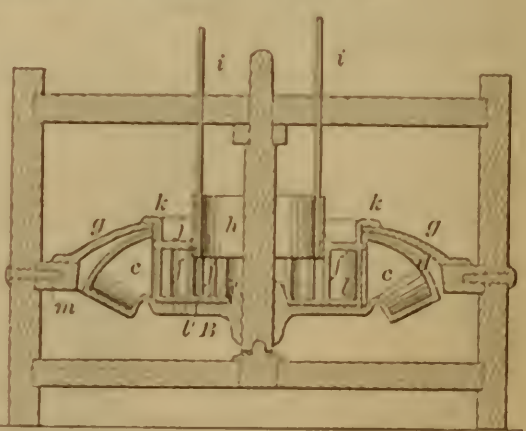
80564—E. Quinlan—*For Polishing Wooden Handles.*



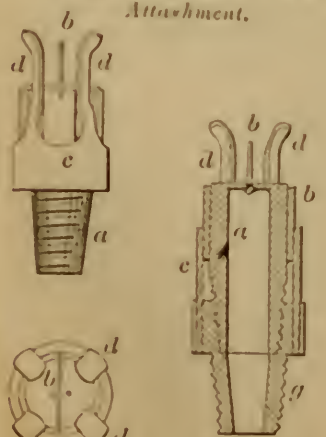
80567—G. F. Sack—*Mould for for Casting Letters.*



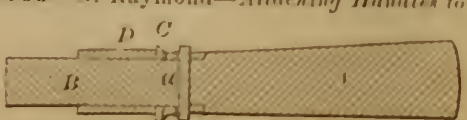
80566—J. S. Roland—*Water Wheel.*



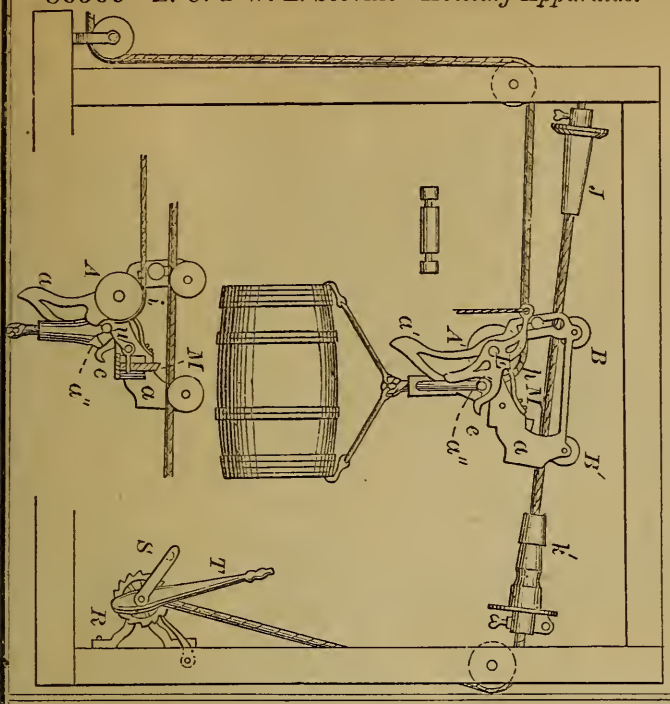
80568—J. Scholl—*Gas Burner Attachment.*



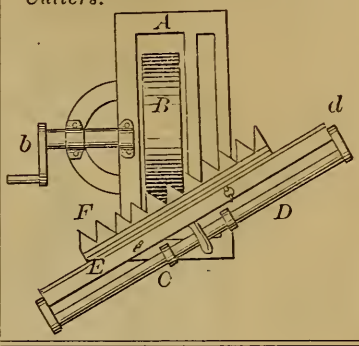
80565—G. Raymond—*Attaching Handles to Tools.*



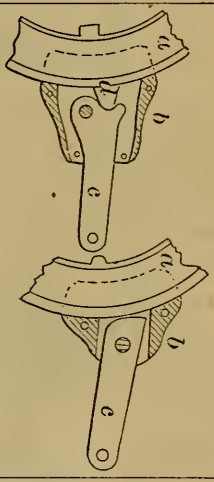
80569—E. U. & W. L. Scoville—*Hoisting Apparatus.*



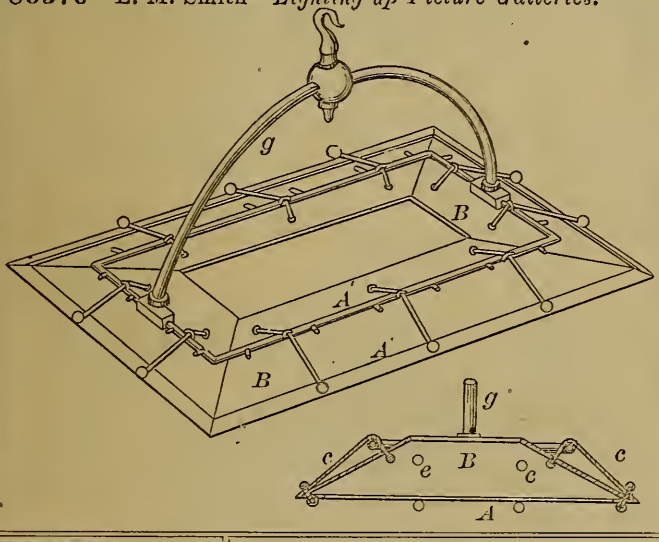
80571—Snow & Dickerson—*For Grinding Mowing Machine Cutters.*



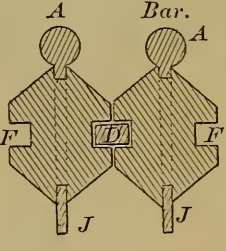
80575—D. Thomas—*Friction Nipper.*



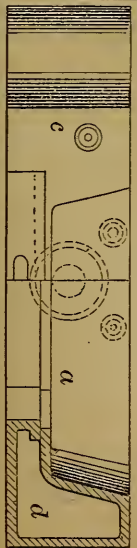
80570—E. M. Smith—*Lighting up Pieture Galleries.*



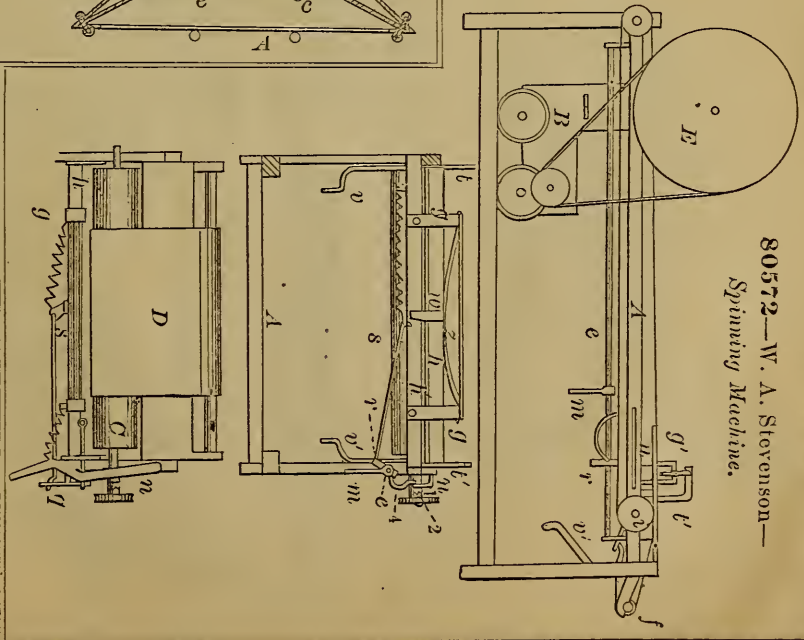
80574—O. H. Taylor—*Grate Bar.*



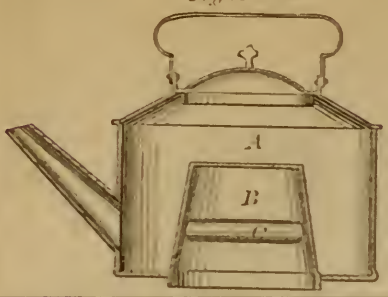
80573—Stokes & Brough—*Water Bush for Puddling Furnaces.*



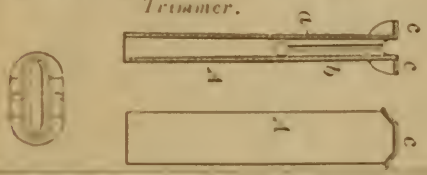
80572—W. A. Stevenson—*Spinning Machine.*



80576—W. Wagstaff—*Tea Kettle and Coffee Pot.*

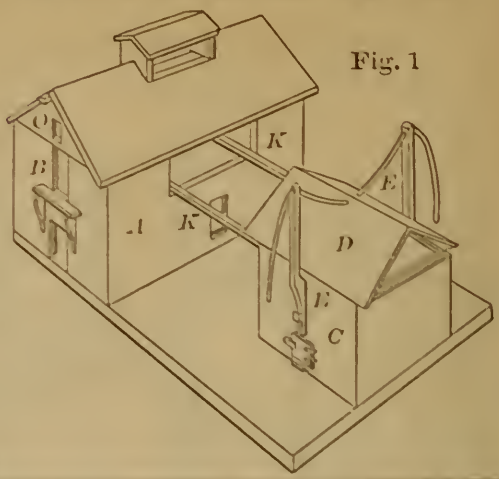


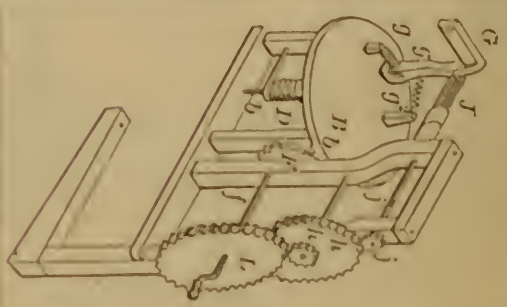
80577—D. Warner—*Lamp Wick Trimmer.*



80578—W. F. Waterhouse—*Hop Dryer.*

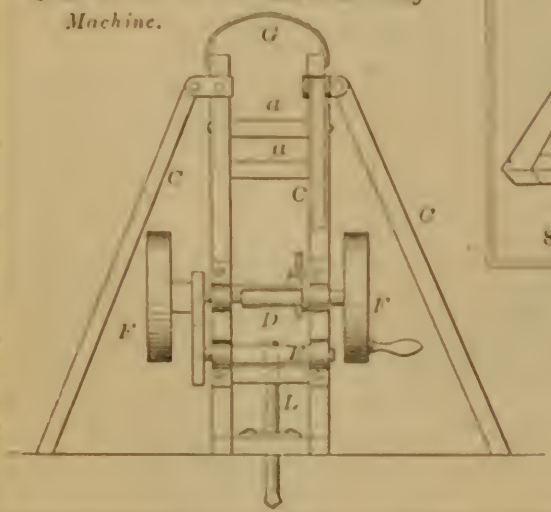
Fig. 1



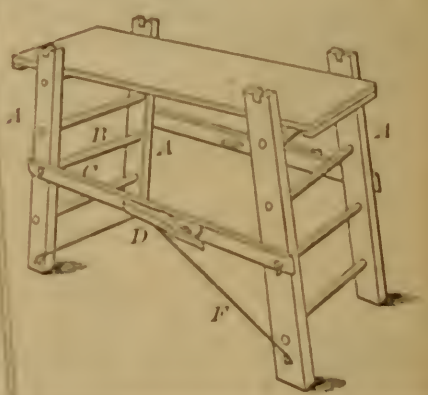


80580—C. A. Wiggin—*Apple Parer.*

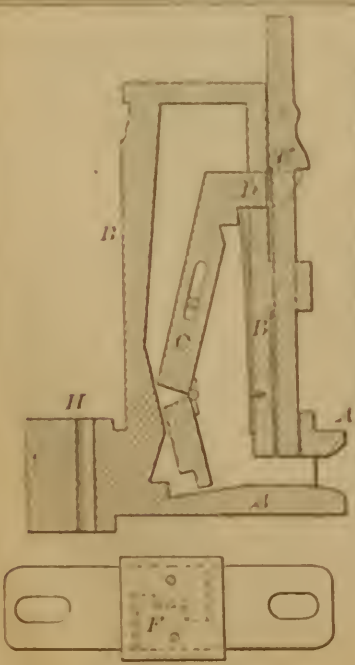
80579—W. Weiler—*Rock Drilling Machine.*



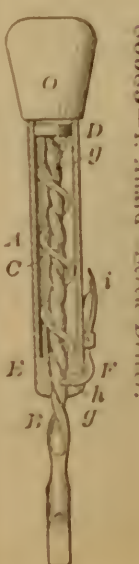
80581—M. T. Williams—*Scaffolding.*



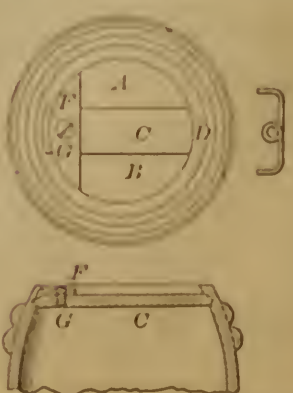
80584—W. S. Anderson—*Car Coupling.*



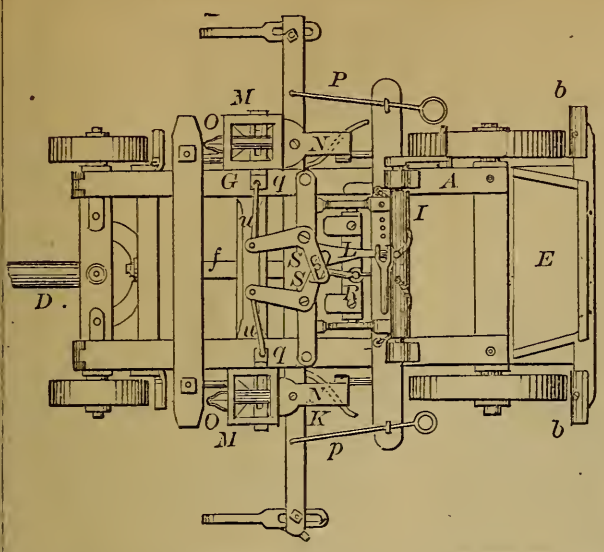
80583—I. Allard—*Screw Driver.*



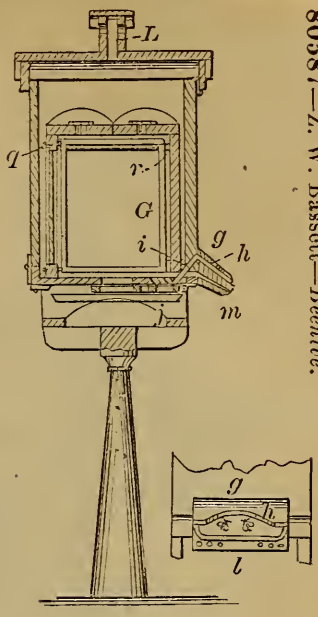
80582—A. C. Yawger—*Adjustable Barrel Head.*



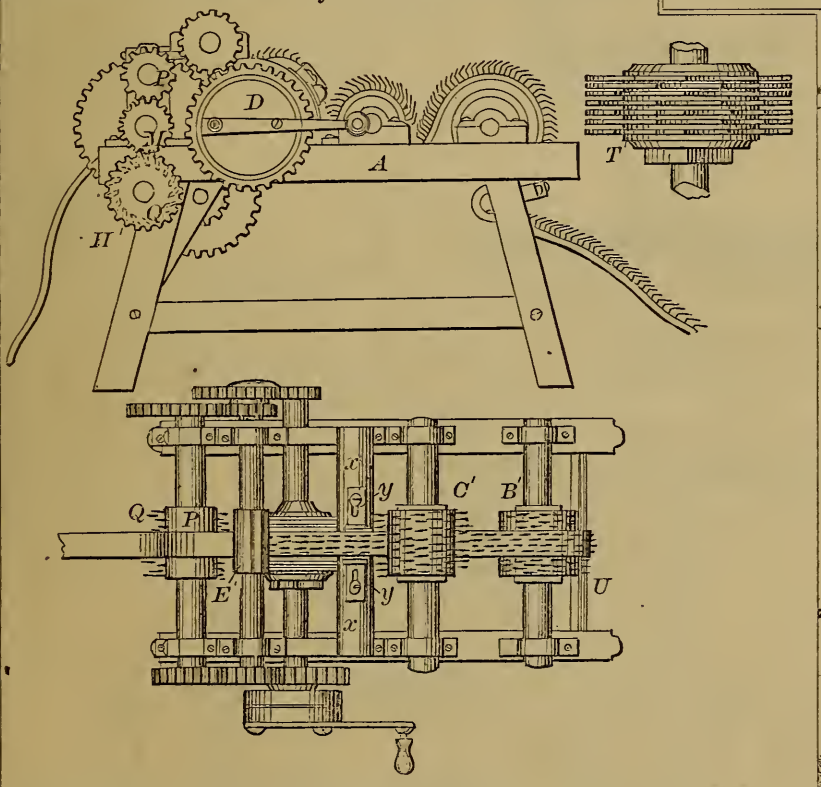
80585—M. Atwood—*Seed Planter.*



80587—Z. W. Bassett—*Beehive.*

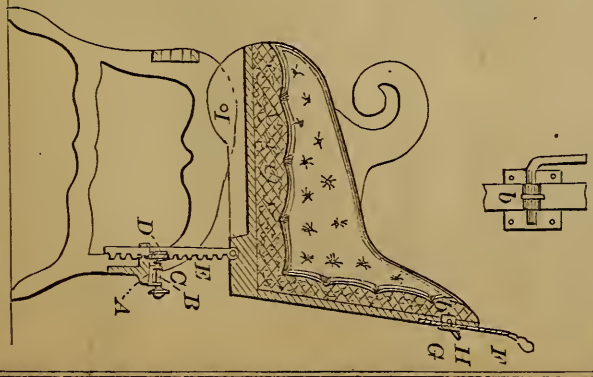


80586—Baham, Wilson & French—*For Removing Wire Teeth from Cards.*

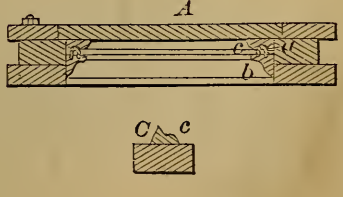


80588—S. R. Bolton—*Stocking Darner.*

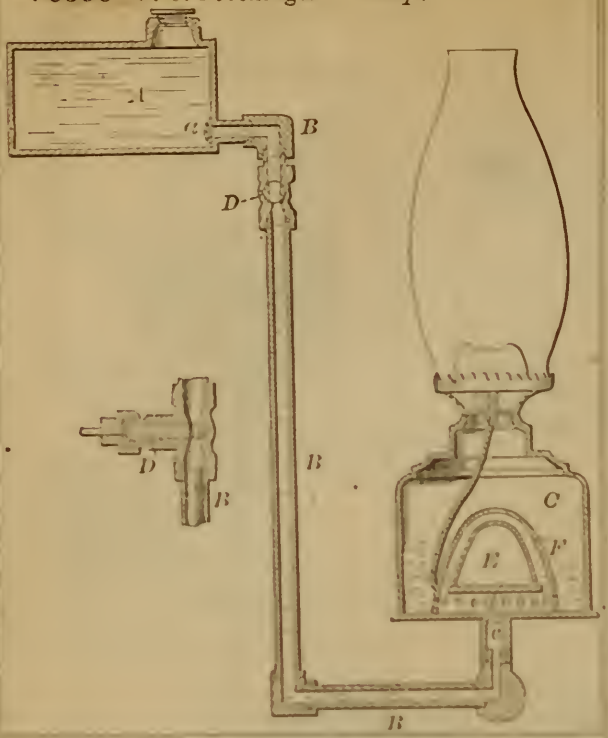
80589—Boon & Finchure—*Barbers' Chair.*



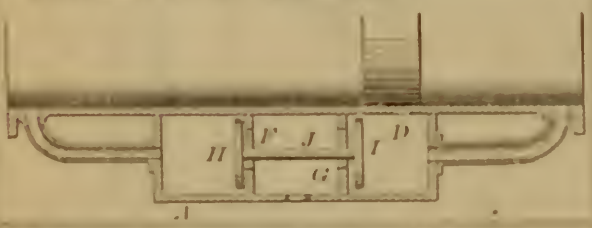
80591—A. C. Brown—*Weather Strip.*



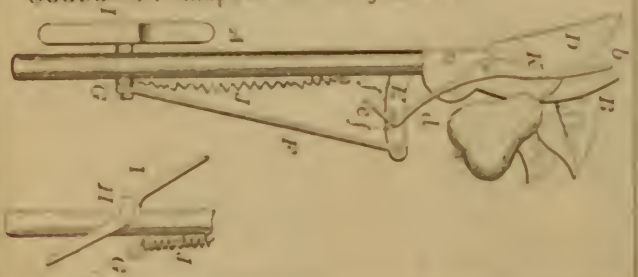
80590—S. C. Brockington—*Lamp.*



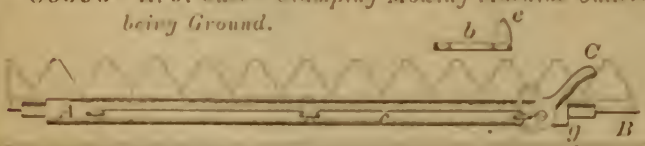
80592—R. Brown—*Steam Trap.*



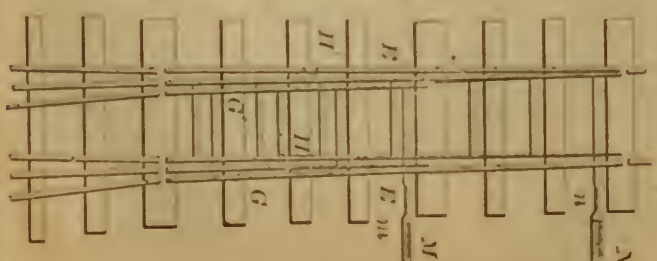
80595—D. Campbell—*Pruning Shears.*



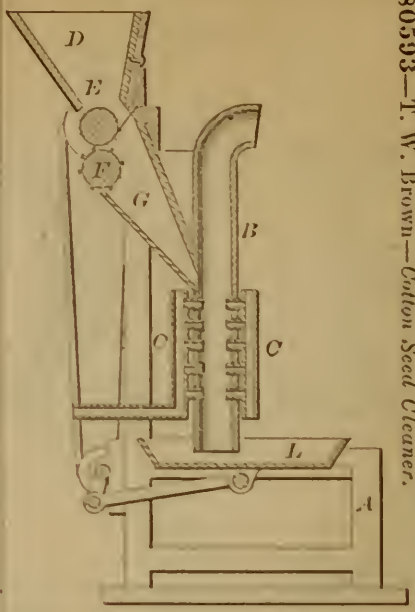
80596—H. J. Case—*Clamping Mowing Machine Cutters while being Ground.*



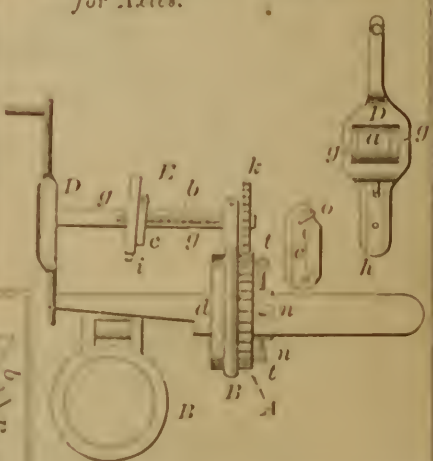
80601—Clark & Besler—*Sketch.*



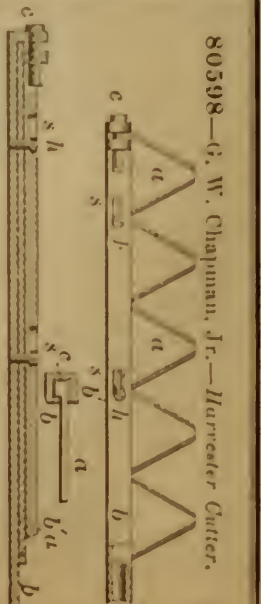
80593—T. W. Brown—*Cotton Seed Cleaner.*



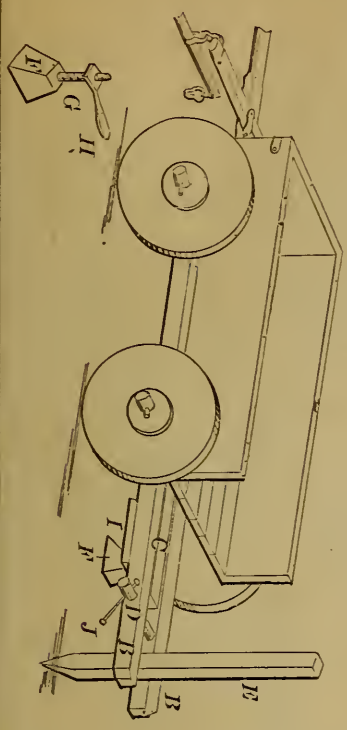
80594—J. Burt—*Skein Setter for Axles.*



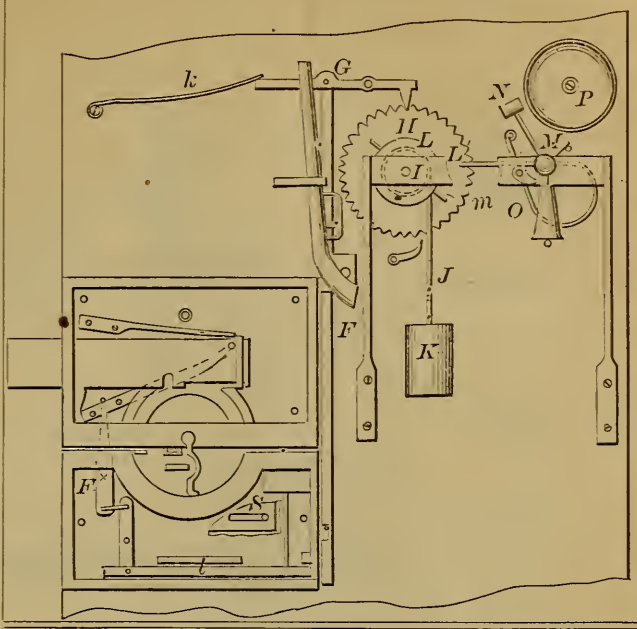
80598—G. W. Chapman, Jr.—*Harvester Cutter.*



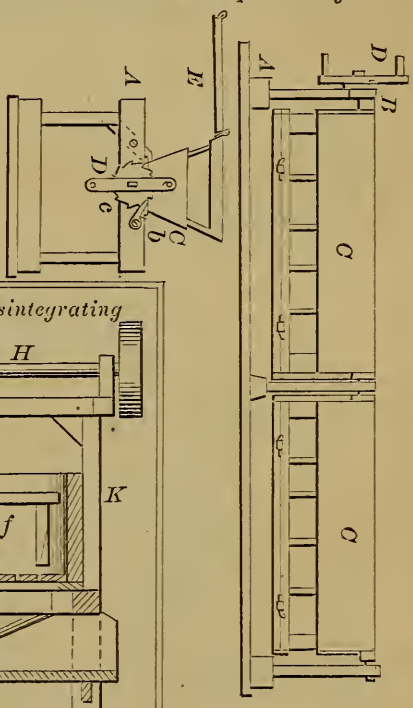
80600—A. B Clark—*Post Driver.*



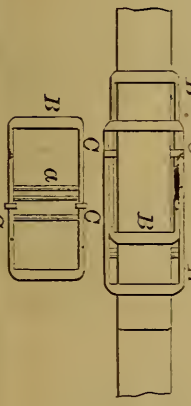
80599—N. Cheek—*Burglar Alarm Lock.*



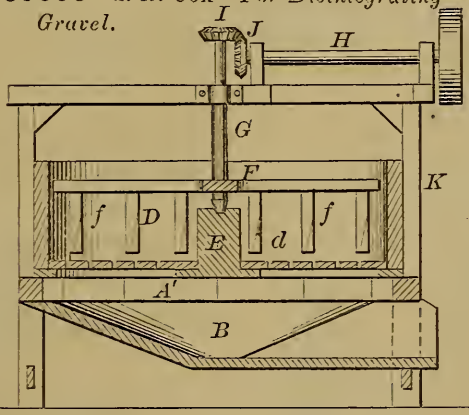
80603—J. C. Colflesh—*Sheep Feeding Rack.*



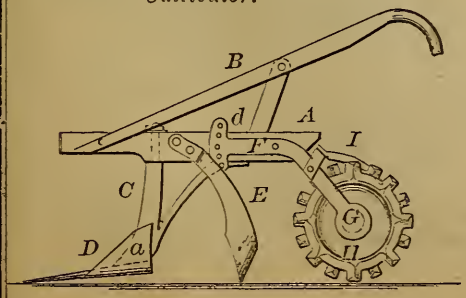
80605—L. D. Cowles—*Buckle.*

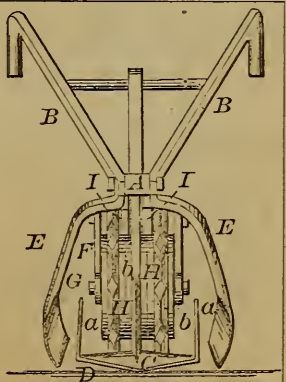


80606—I. B. Cox—*For Disintegrating Gravel.*

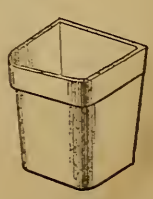


80604—G. W. Cooper—*Rice Cultivator.*

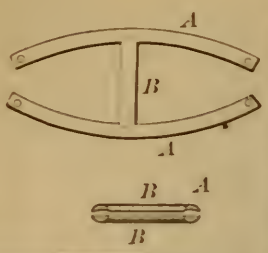




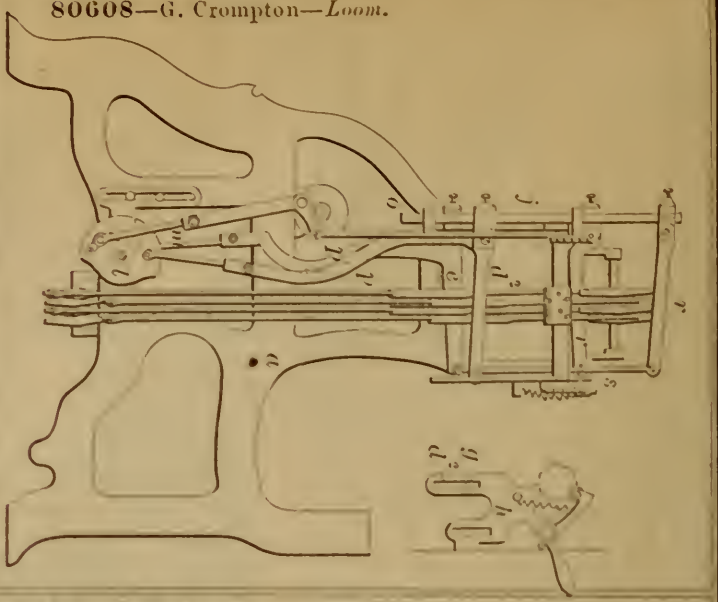
80602—O. W. Clark—*Elevator Bucket.*



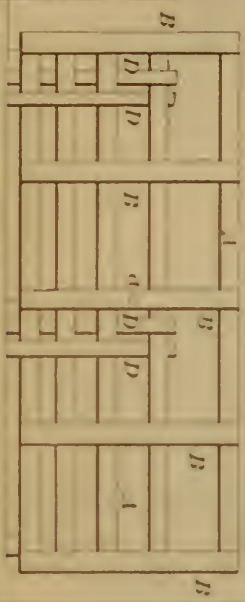
80607—R. T. Crane—*Core Bar.*



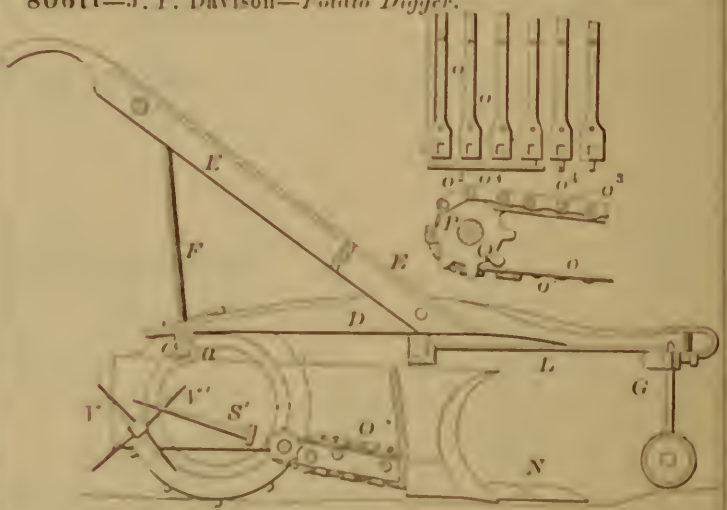
80608—G. Crompton—*Loom.*



80609—H. J. Culp—*Fence.*

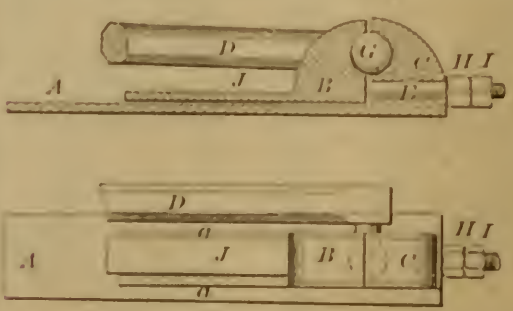


80611—J. P. Davison—*Potato Digger.*

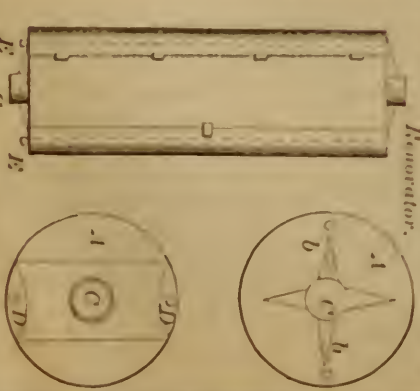


80612—J. S. Detrick—*Counting Register.*

80614—O. P. Drury—*Harvester Pitman.*

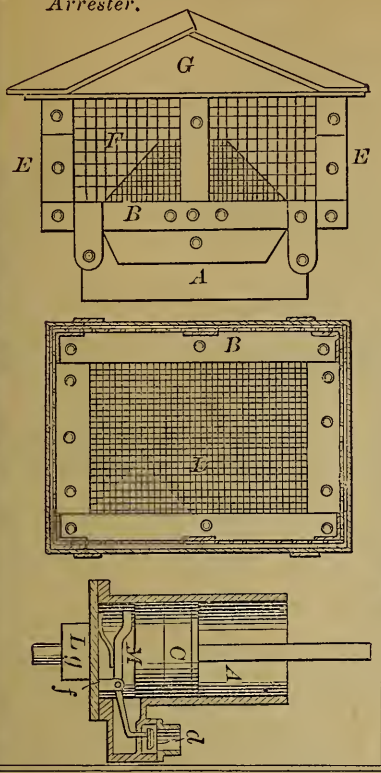


80610—W. F. Daugherty—*Renovator.*

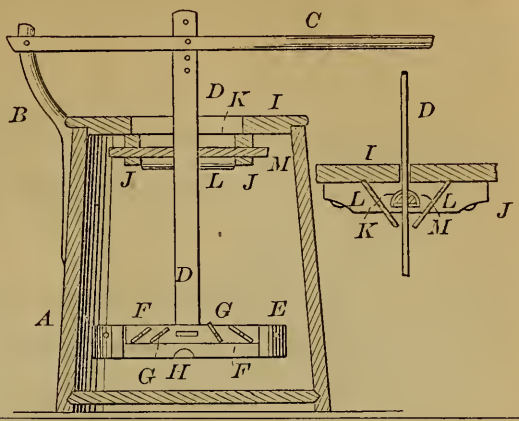


80613—R. F. Dobson—*Broom.*

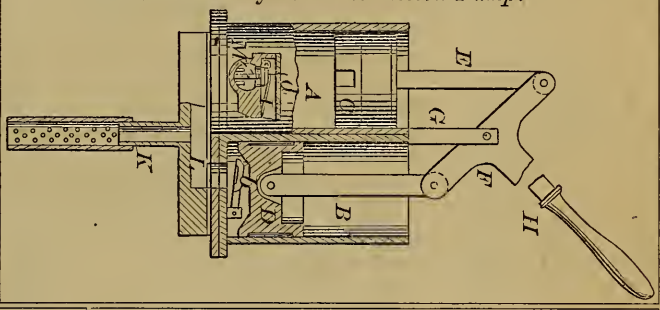
80615—D. Eberhart—*Spark Arrester.*



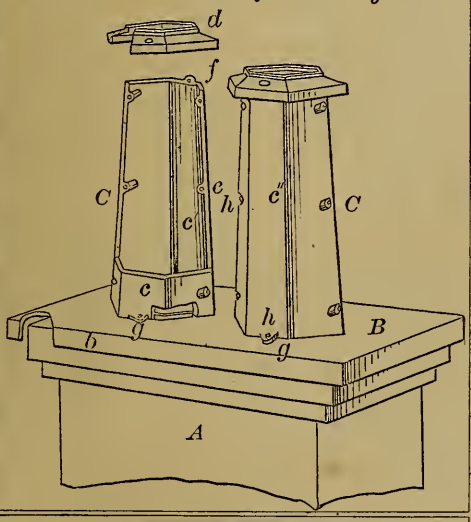
80616—D. A. Fiske—*Churn.*



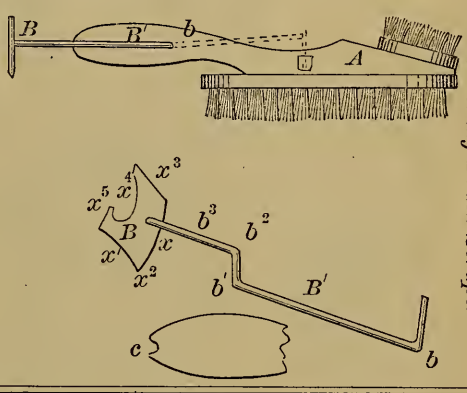
80617—P. Foley—*Double Action Pump.*



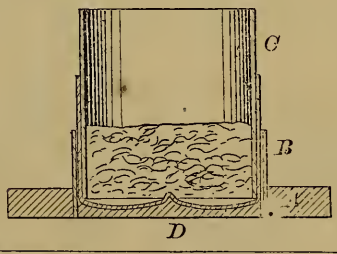
80618—W. C. Frailey—*Chimney Cowl*



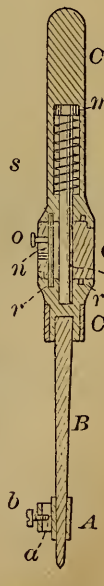
80621—J. Goodenough—*Blacking Brush Scraper.*



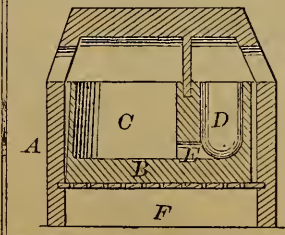
80619—E. G. Ganiard—*Hassock Filler.*



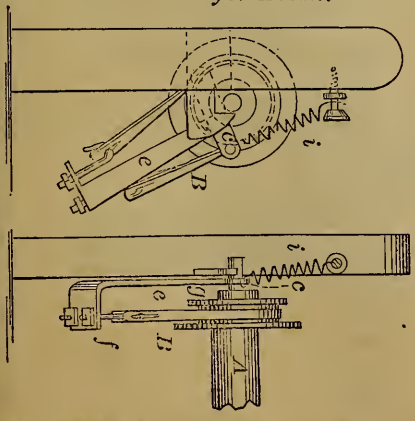
80622—W. S. Goss—*Screw Driver.*



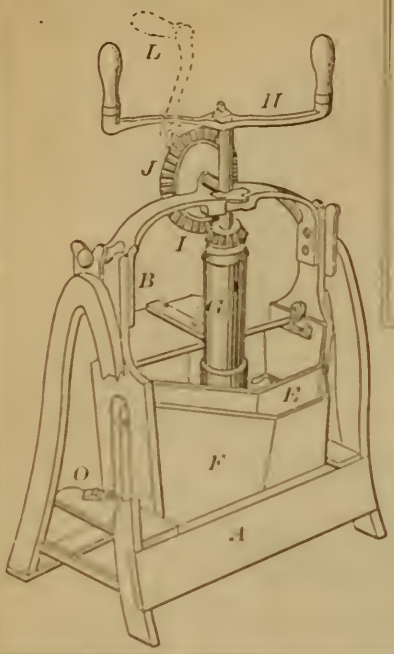
80623—N. Granger—*Glass Furnace.*

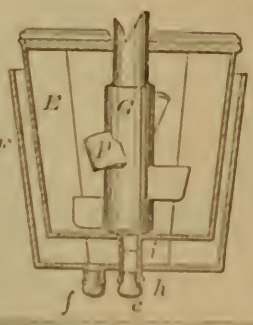


80625—W. Hall—*Let-off Mechanism for Looms.*

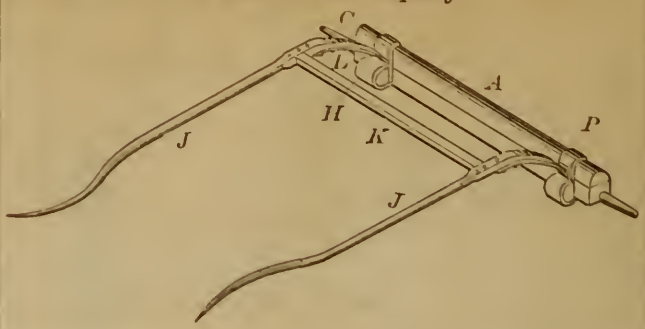


80624—S. L. Hall—*Churn and Butter Worker.*



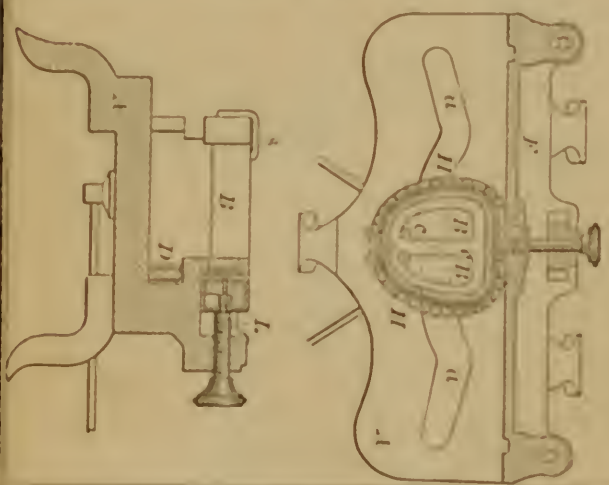


80626—I. C. Hart—*Thill Coupling.*

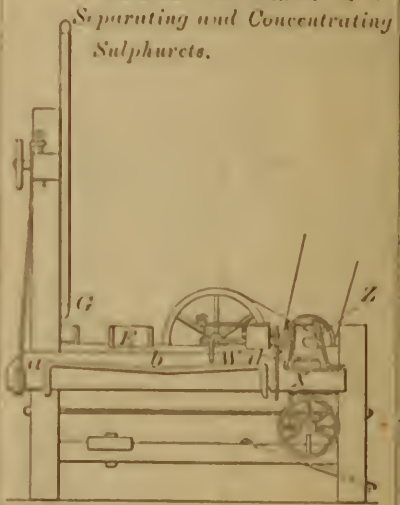


80628—J. Hobart—*Double Volute Spring.*

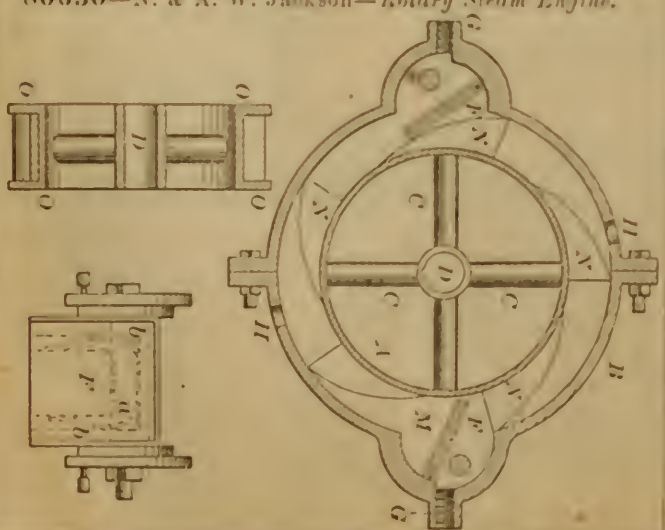
80627—L. Heywood—*For Bending Wood.*

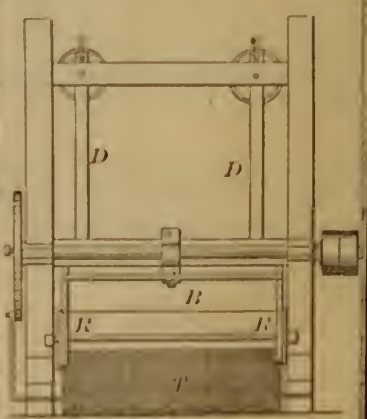


80629—A. Hunter—*For Separating and Concentrating Sulphurets.*

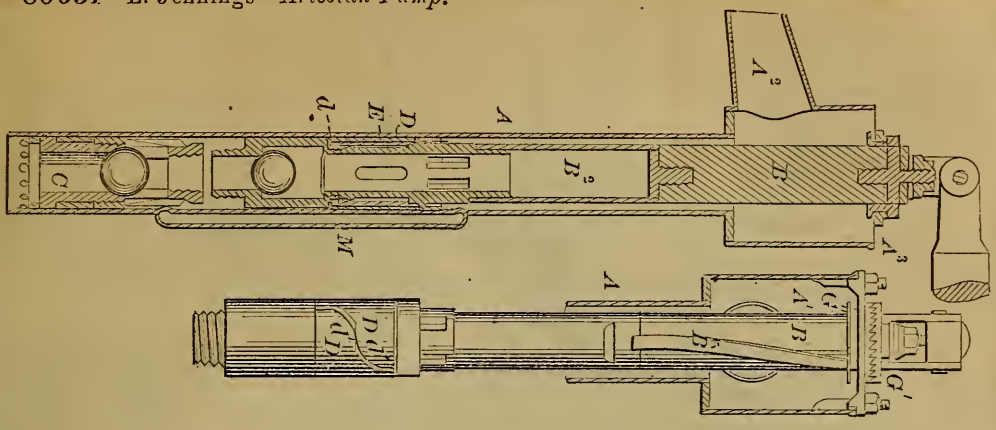


80630—N. & A. W. Jackson—*Rotary Steam Engine.*

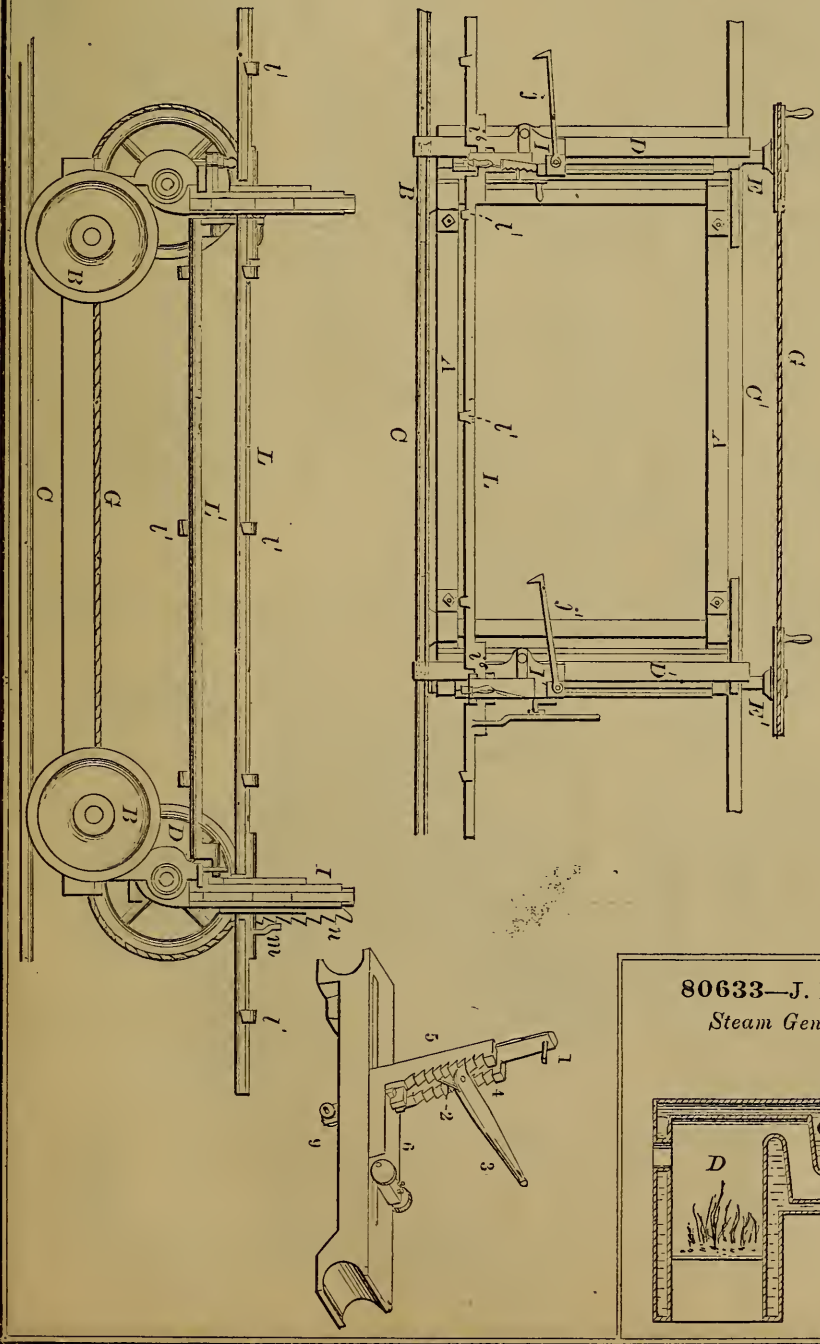




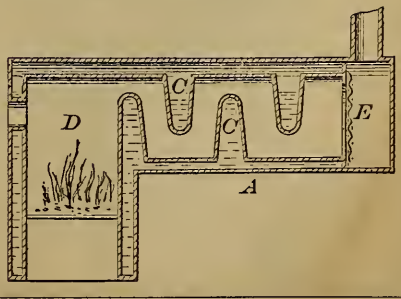
80631—L. Jennings—*Artesian Pump.*



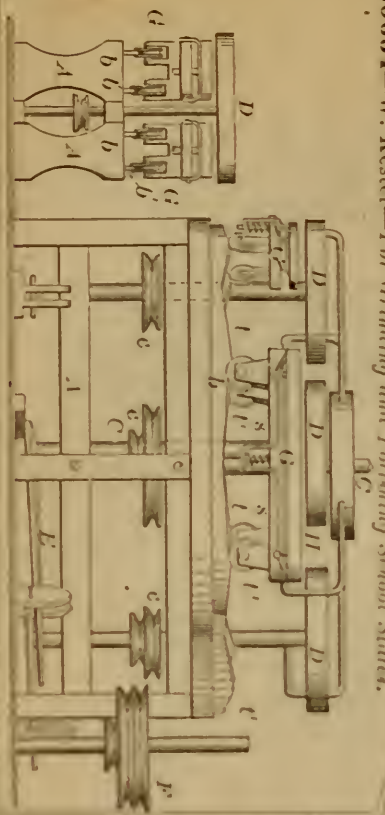
80632—N. Johnson—*Head Block for Saw Mills.*



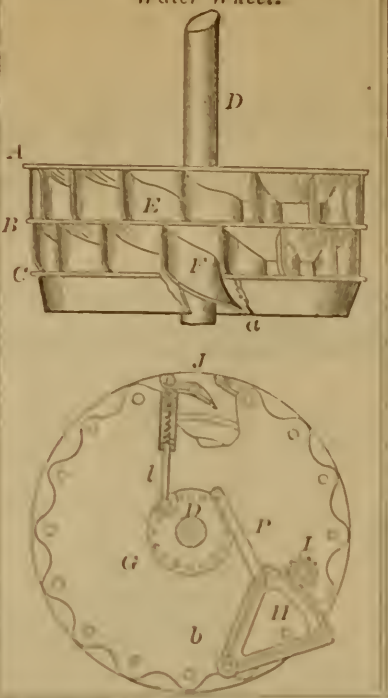
80633—J. Kelshaw—
Steam Generator.



80634—W. Kester—*For Grinding and Polishing School Slates.*

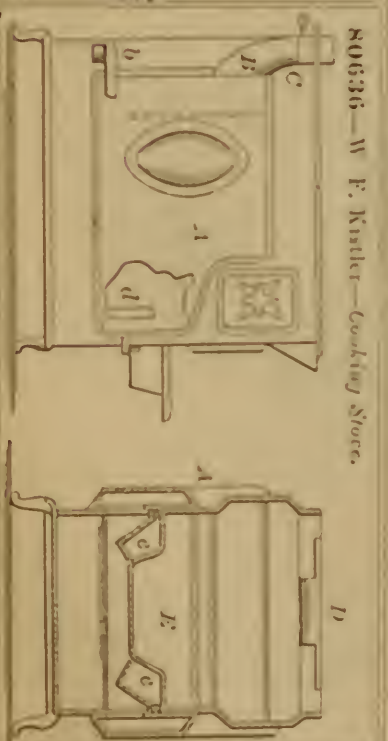


80635—T. J. Kindleberger—*Water Wheel.*



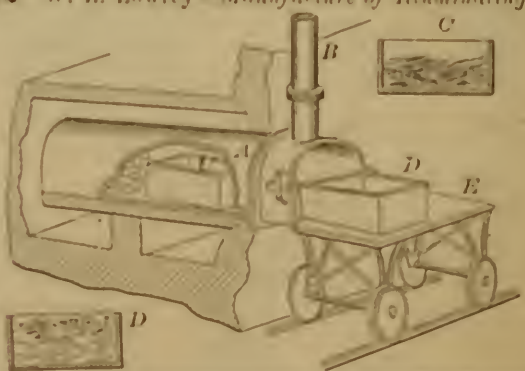
80638—J. Y. Lanfair—*Water Wheel.*

80636—W. F. Kistler—*Cooking Stove.*



80637—T. Lalor—*Indicator Lock.*

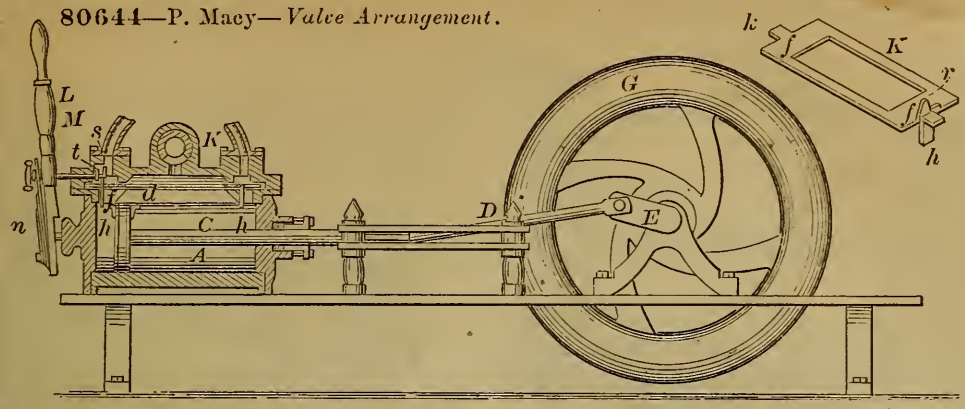
80642—W. L. Lowrey—*Manufacture of Illuminating Gas.*



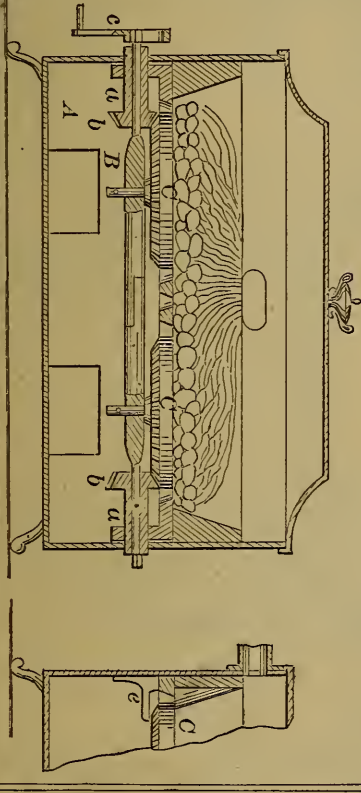
80639—E. Lindsley—*Hinge.*

80643—G. F. Lynch—*Rotary Cultivator.*

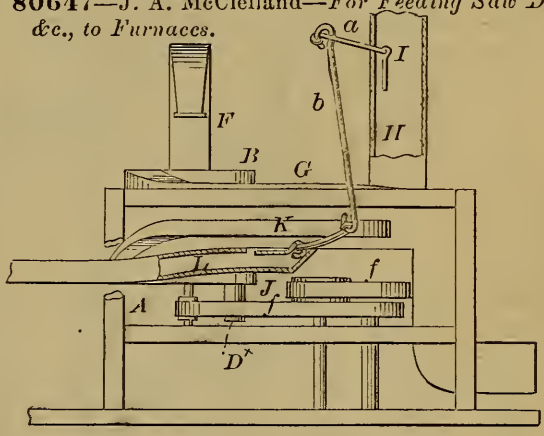
80644—P. Macy—*Valve Arrangement.*

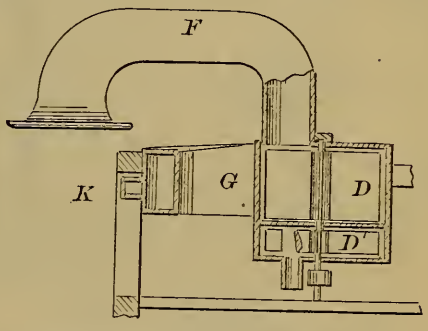


80645—A. J. Magoon—*Stove Grate.*

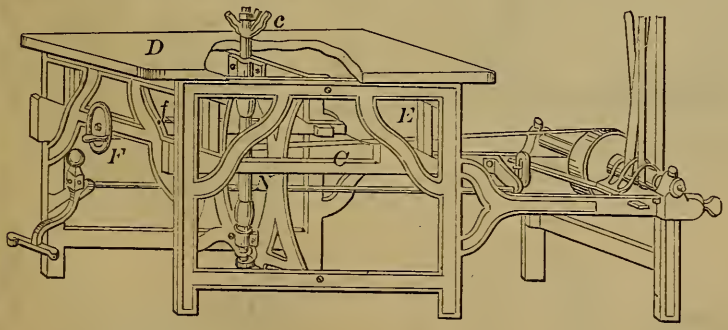


80647—J. A. McClelland—*For Feeding Saw Dust, &c., to Furnaces.*

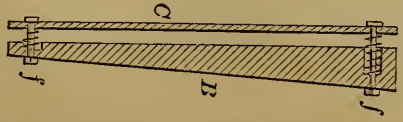




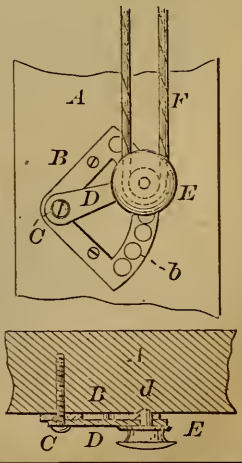
80648—C. H. Mellor—*Moulding Machine.*



80649—B. F Merrill—*Gauge.*

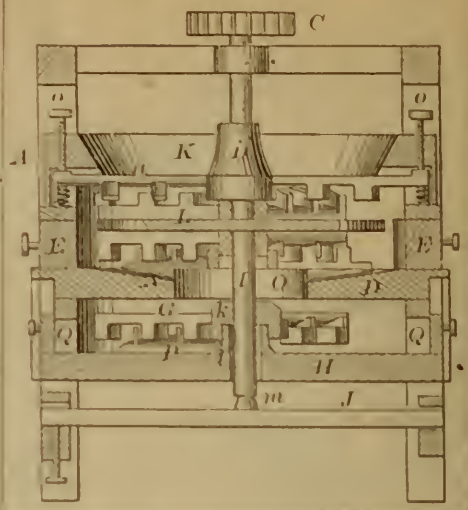


80650—L. E. Michell—*Curtain Fixture.*

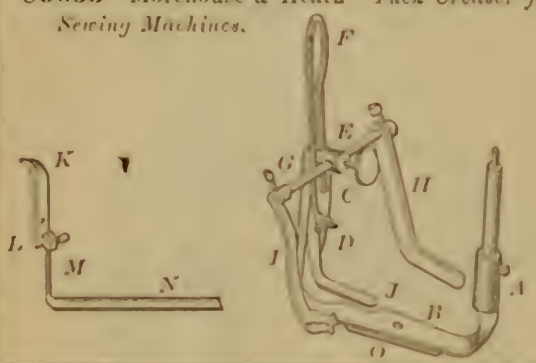


80651—C. E. Miller—*Wash Boiler.*

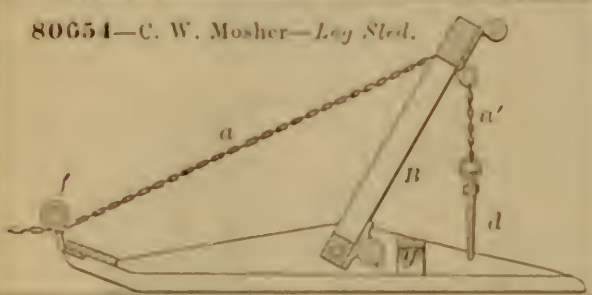
80652—L. Moore—*Clay Mill.*



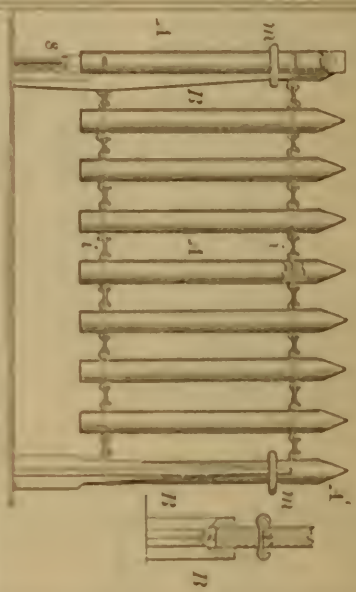
80653—Morehouse & Heath—*Tuck Creaser for Sewing Machines.*

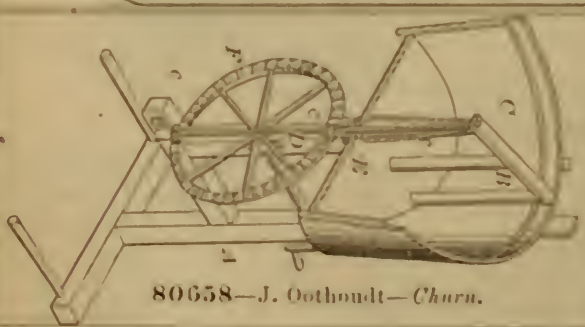


80654—C. W. Mosher—*Log Sled.*



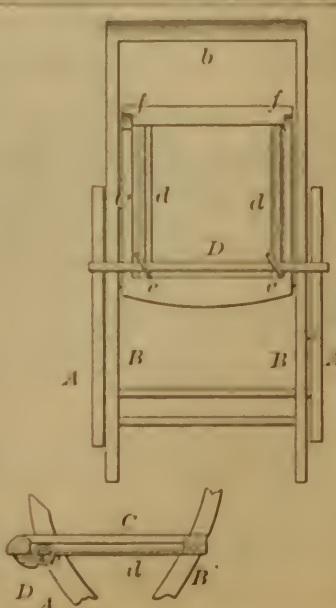
80657—J. W. Norman—*Portable Fence.*



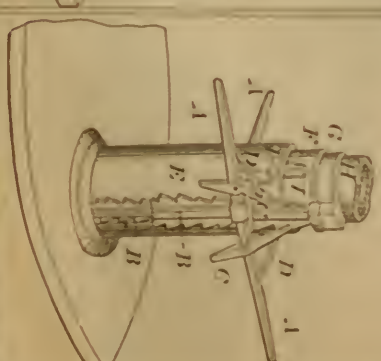


80658—J. Oothoudt—*Churn.*

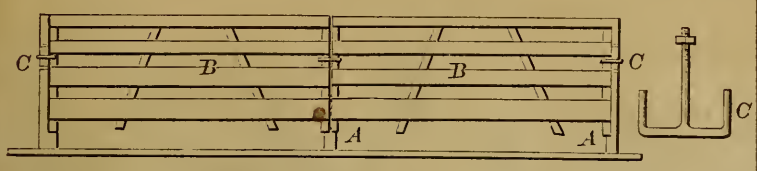
80656—J. Nicolai—*Folding Chair.*



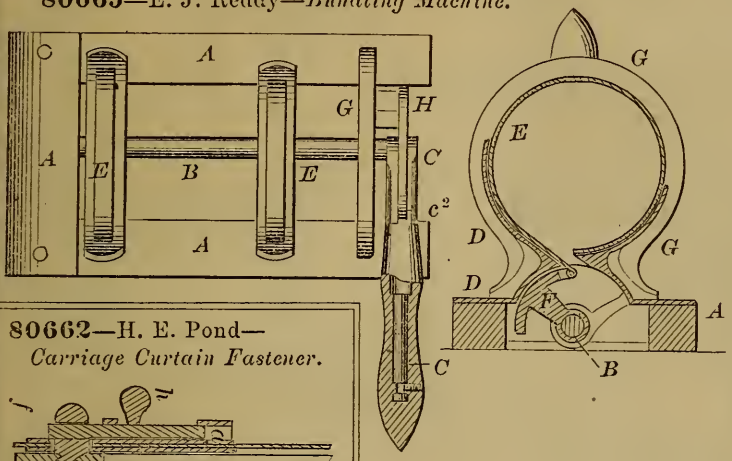
80659—W. H. Parker—*Smoke Stack.*



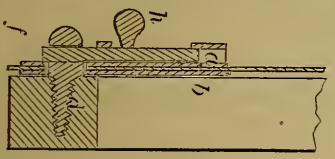
80661—S B. Pierce—*Fence.*



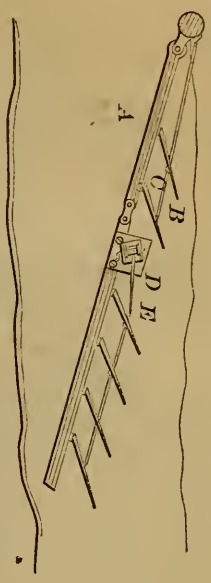
80665—E. J. Reddy—*Bundling Machine.*



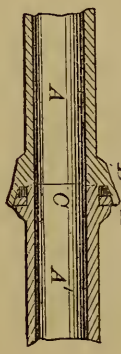
80662—H. E. Pond—*Carriage Curtain Fastener.*



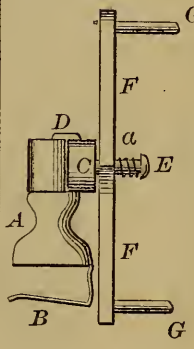
80663—L. W. Pond—*For Steering Booms.*



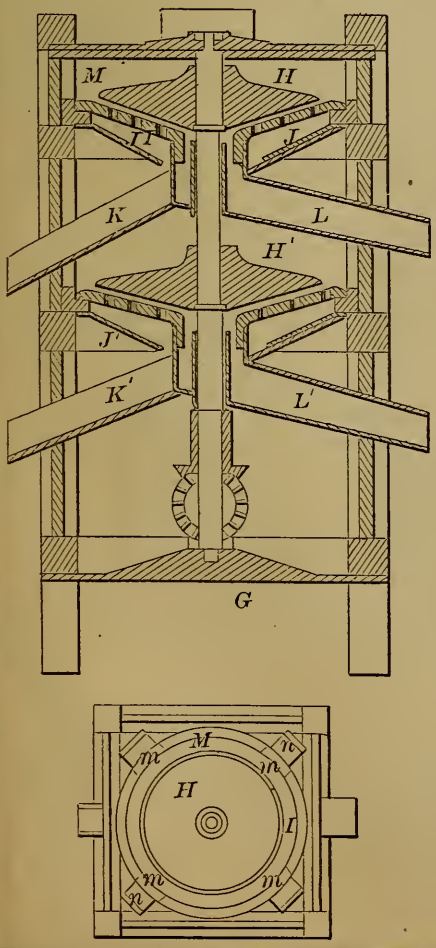
80667—W. D. Richardson—*Lead Pipe Connection.*



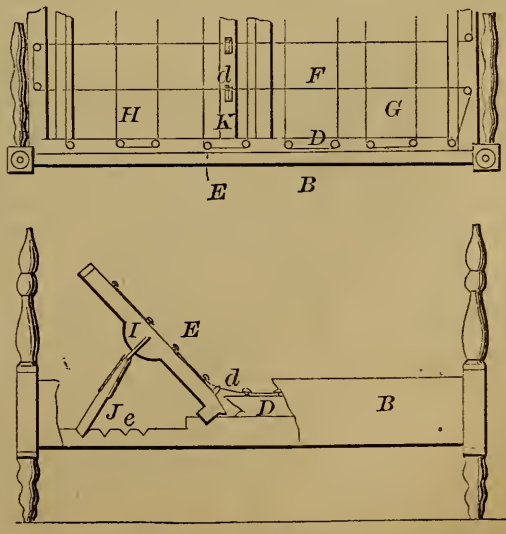
80664—Porter & Roberts—*Swift or Reel.*



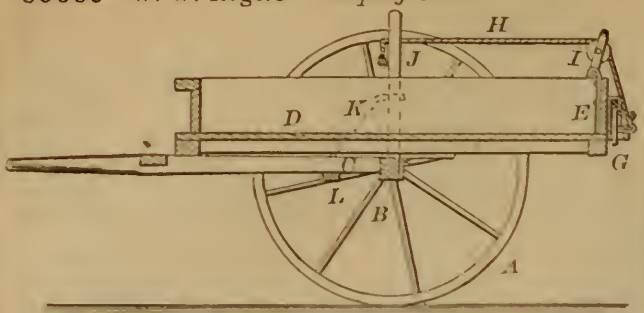
80666—O. N. Rich—*Grain Separator.*



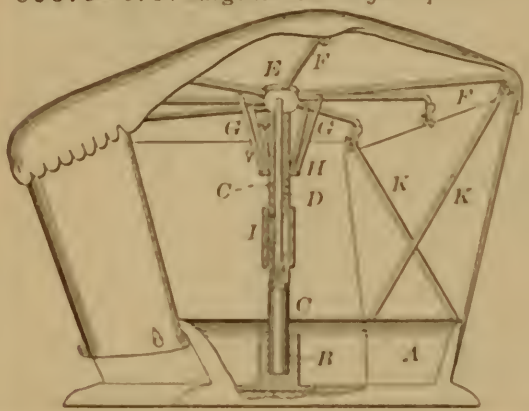
80668—L. W. Roath—*Bedstead.*



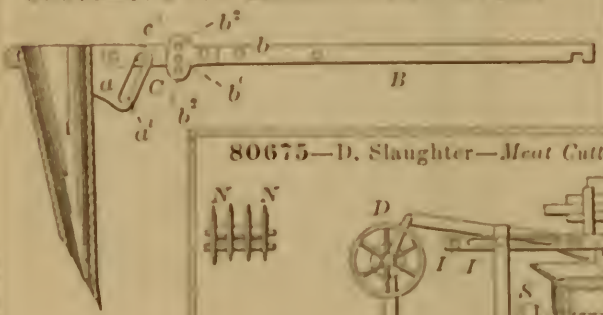
80669—W. W. Rogers—*Dumping Cart.*



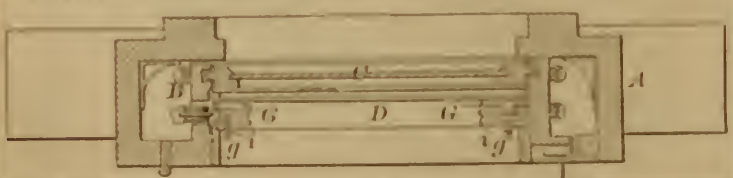
80670—J. F. Sargent—*Carriage Top.*



80671—P. & P. J. Schmitt—*Grain Drill Shoe.*

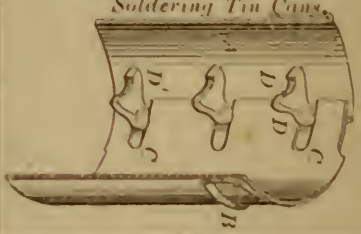


80672—J. Schnell—*Sash and Window Frame.*



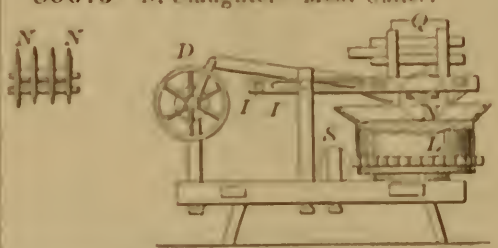
80674—F. M. Shields—*Yoke.*

80673—W. Serviss—*For Soldering Tin Cans.*

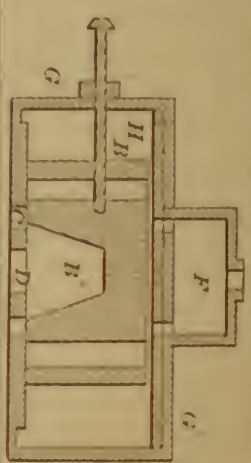


80676—G. H. Soule—*Bracelet Fastening.*

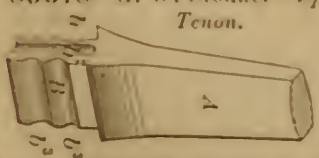
80675—D. Slaughter—*Meat Cutter.*



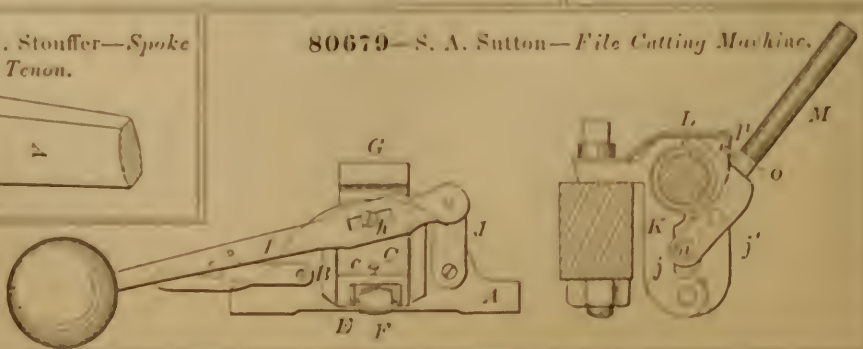
80677—J. D. Stewart—*Slide Valve.*



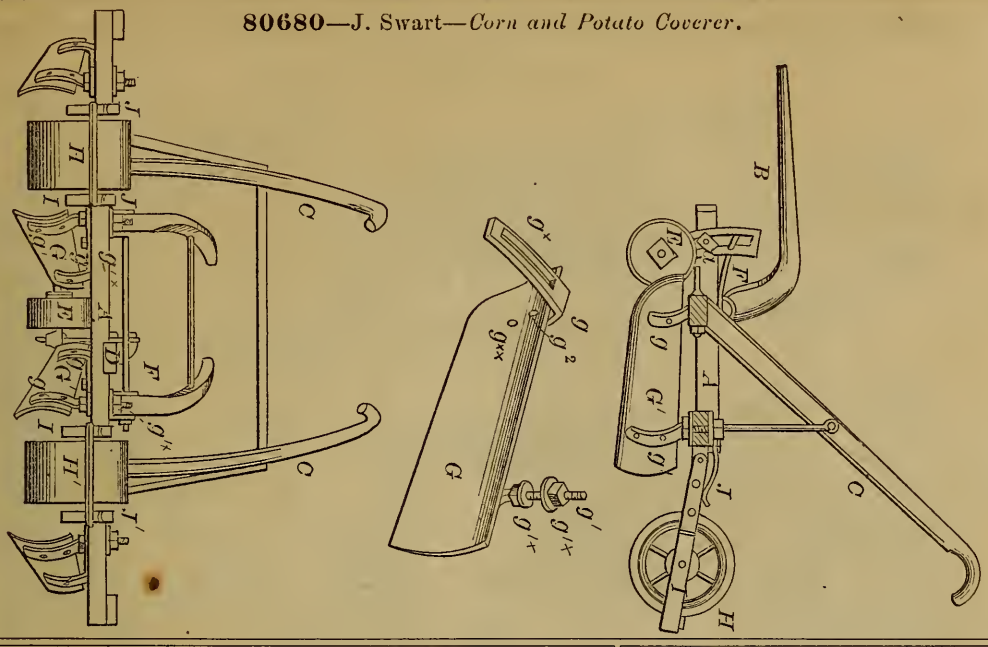
80678—G. W. Stouffer—*Spoke Tenon.*



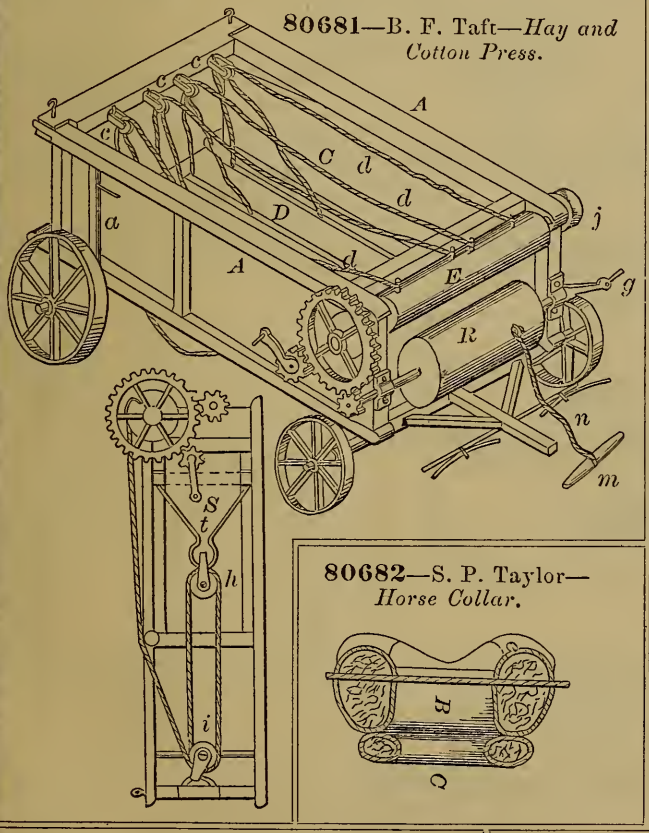
80679—S. A. Sutton—*File Cutting Machine.*



80680—J. Swart—*Corn and Potato Coverer.*

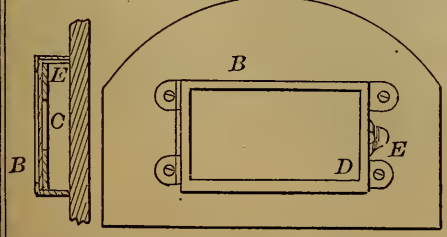


80681—B. F. Taft—*Hay and Cotton Press.*

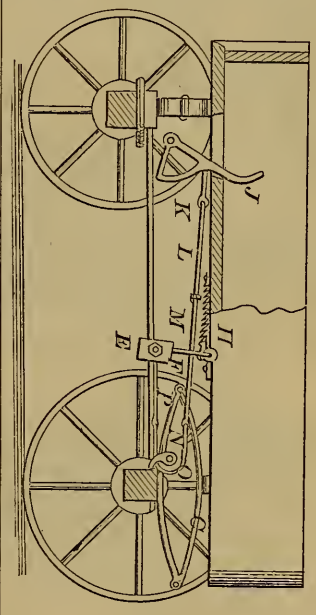


80682—S. P. Taylor—*Horse Collar.*

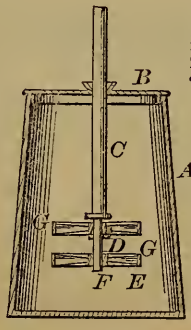
80683—G. S True—*Label Holder.*



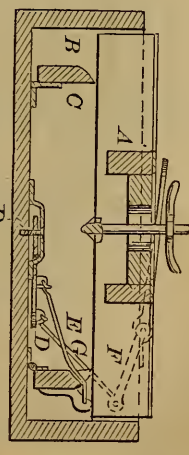
80684—W. H. Tucker—*Wagon Brake.*



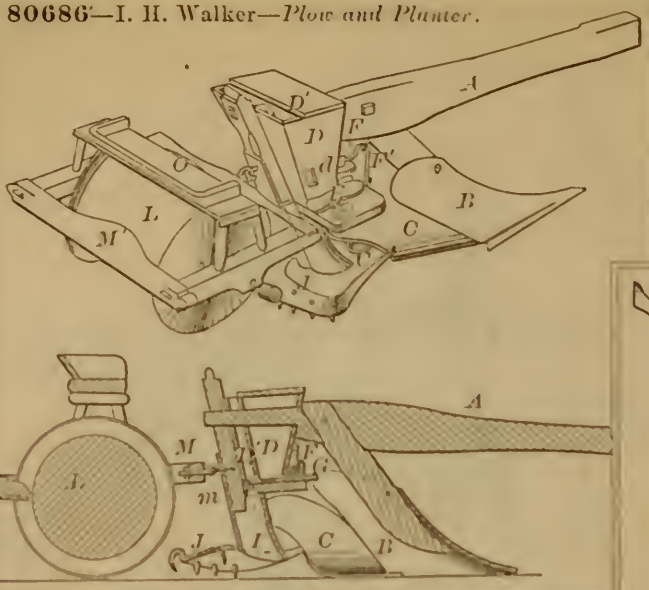
80685—T. W. Tyler—*Churn Dasher.*



80687—J. Wampach—*Tire Cooler.*

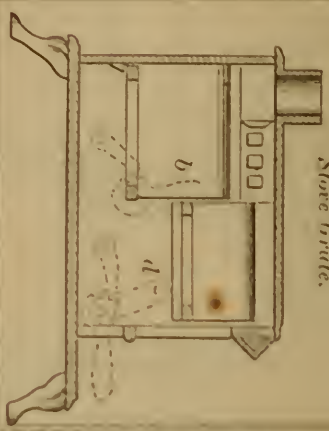


80686—I. H. Walker—*Plow and Planter.*

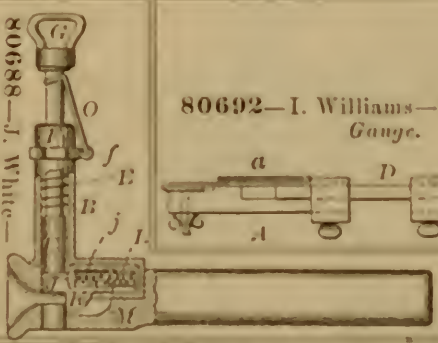


80690—H. Will—*Thill Coupling.*

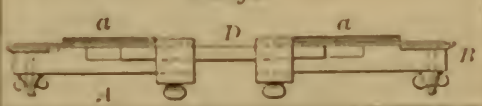
80689—Whiting & Hamilton—*Store Grate.*



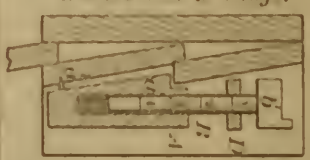
80688—J. White—*Car Coupling.*



80692—I. Williams—*Weatherboard Gauge.*

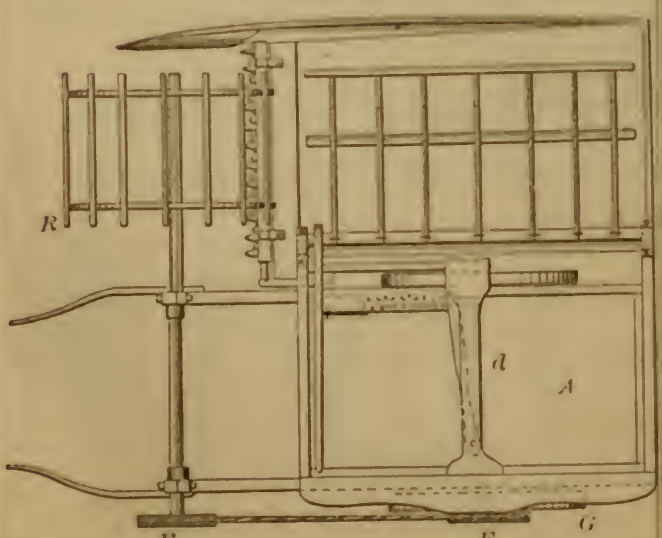


80691—I. Williams—*Weatherboard Gauge.*

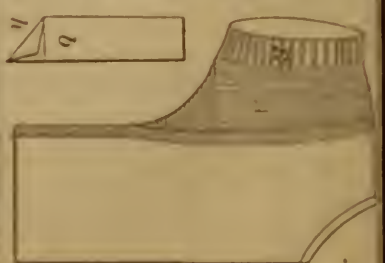


80691—C. W. & E. F. Witt—*Harvester.*

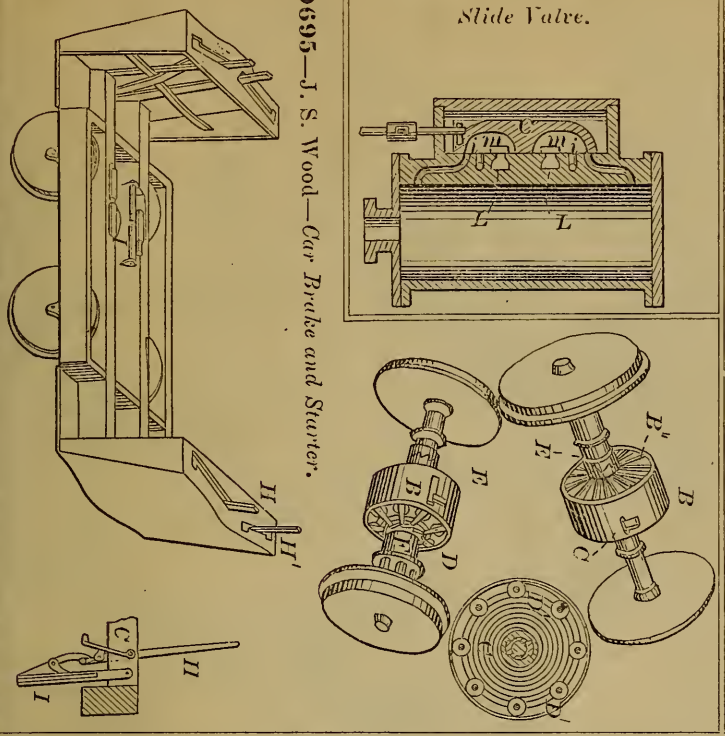
80696—C. F. Woodruff—*Excavator.*



80697—W. H. Abel—*Sleeve of Knitted Garments.*

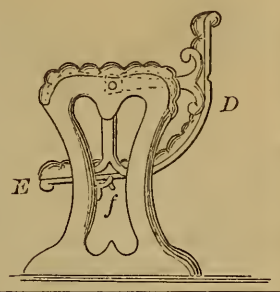


80695—J. S. Wood—*Car Brake and Starter.*

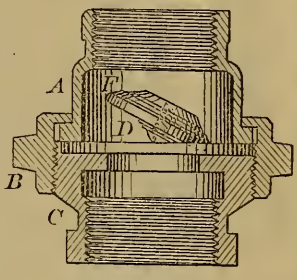


80698—Allen & Wilford—*Slide Valve.*

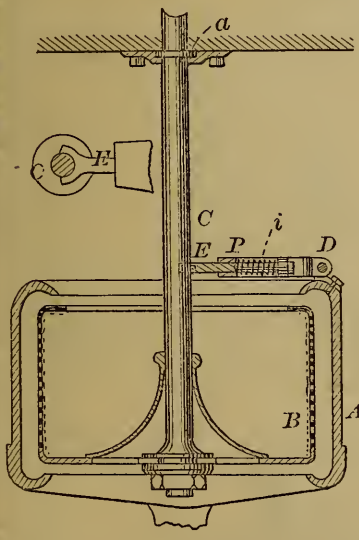
80703—S. G. Blackman—*Car Seat.*



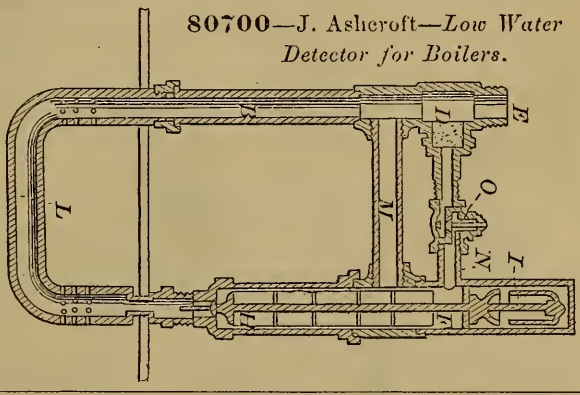
80704—S. O. Blanding—*Valve Coupling.*



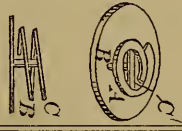
80702—R. J. Barr—*Centrifugal Machine.*



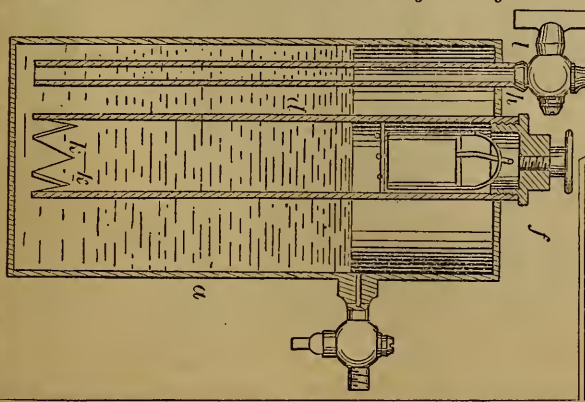
80700—J. Ashcroft—*Low Water Detector for Boilers.*



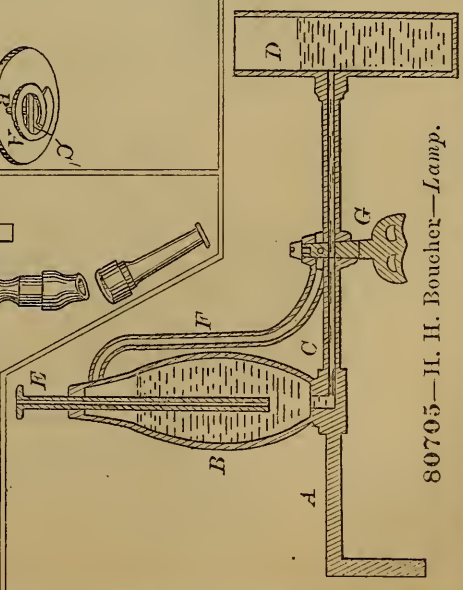
80699—H. Ansley—*Button.*



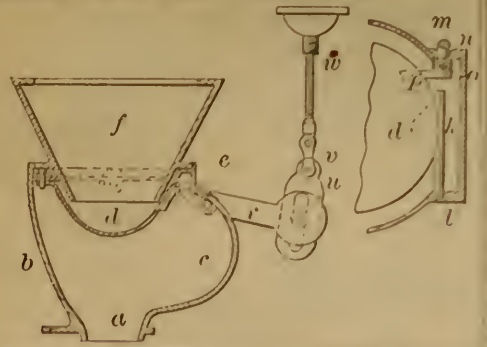
80701—J. F. Babcock—*For Extinguishing Fires.*



80705—H. H. Boucher—*Lamp.*

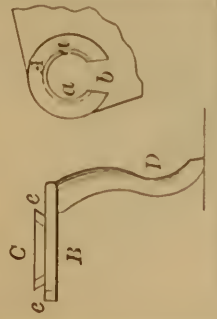


80708—W. S. Carr—*Water Closet.*

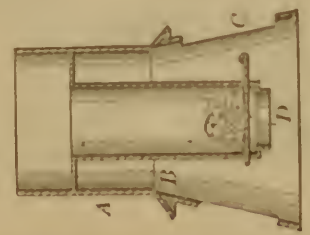


80707—R. D. Burr—*Glove.*

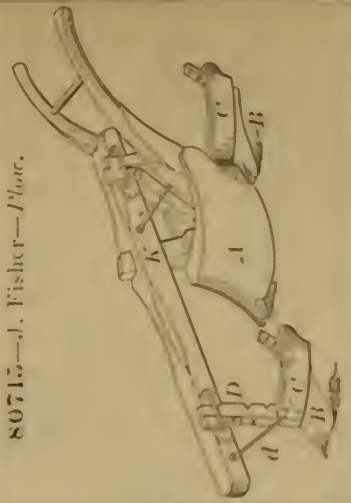
80706—G. W. Burling—*Stove Leg.*



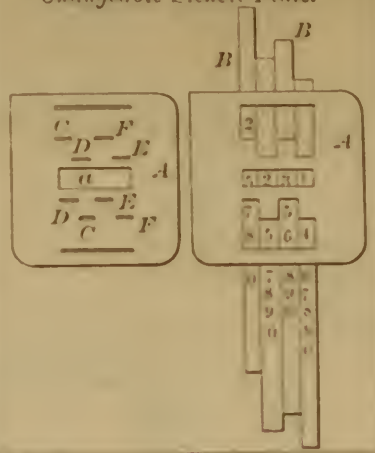
80712—T. Parsons—*Base Burning Stove.*



80715—J. Fisher—*Plate.*



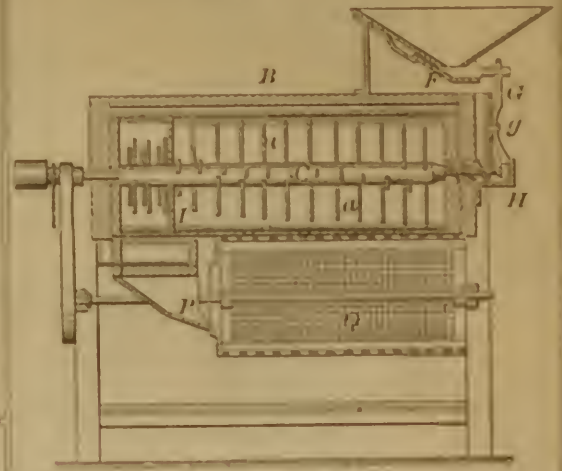
80711—J. J. De Barry—*Changeable Stencil Plate.*

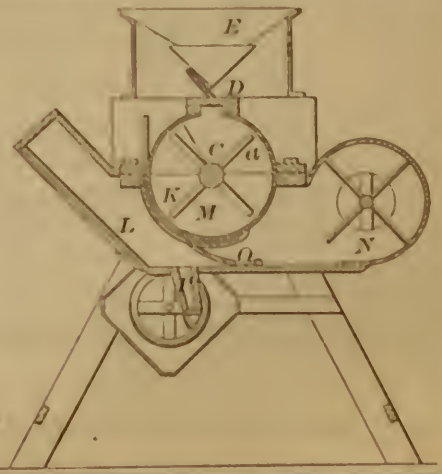


80710—G. D. Clark—*Button Fastening.*

80714—A. B. Edmands—*Water Meter.*

80713—E. A. Dner—*Hooking and Pearling Mill.*





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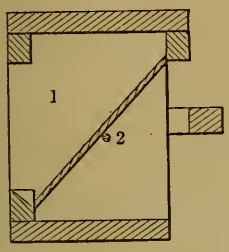
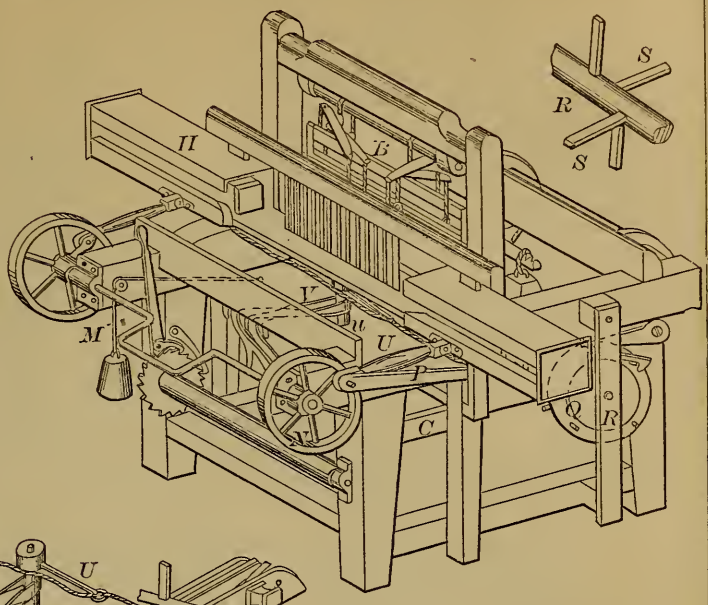
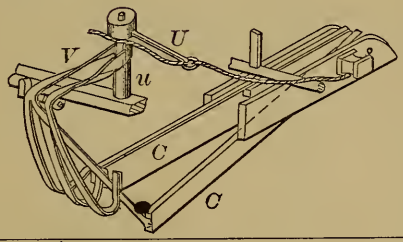
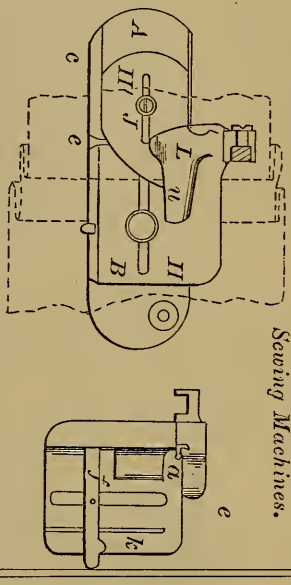


80717—W. S. Freeman—*Hand Loom.*

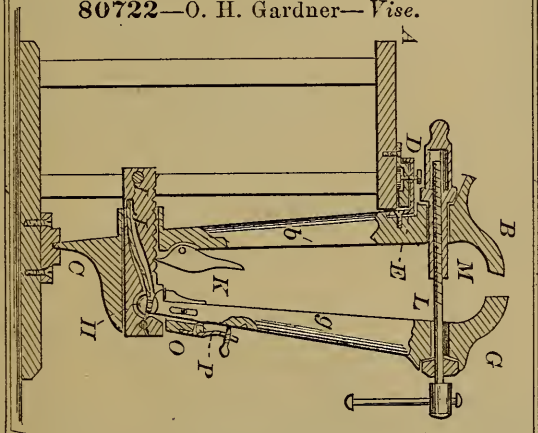




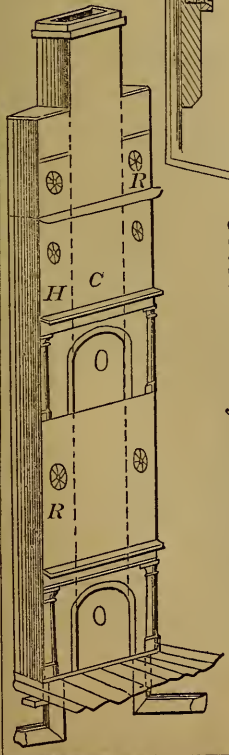
80721—C. H. Gardner—*Tuck Folder for Sewing Machines.*



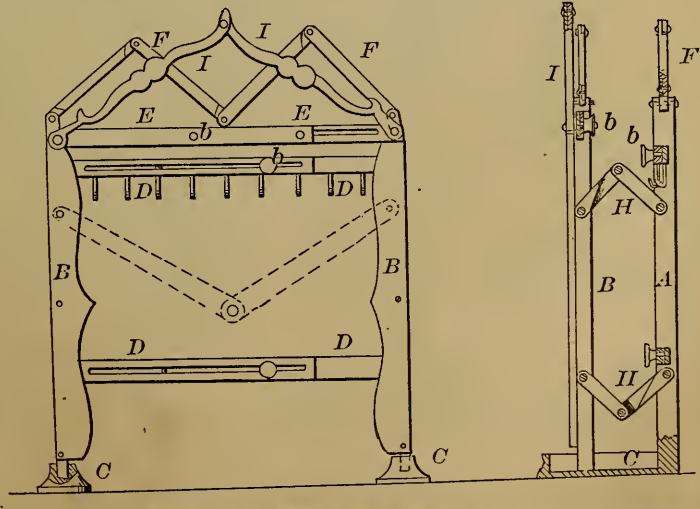
80722—O. H. Gardner—*Vise.*



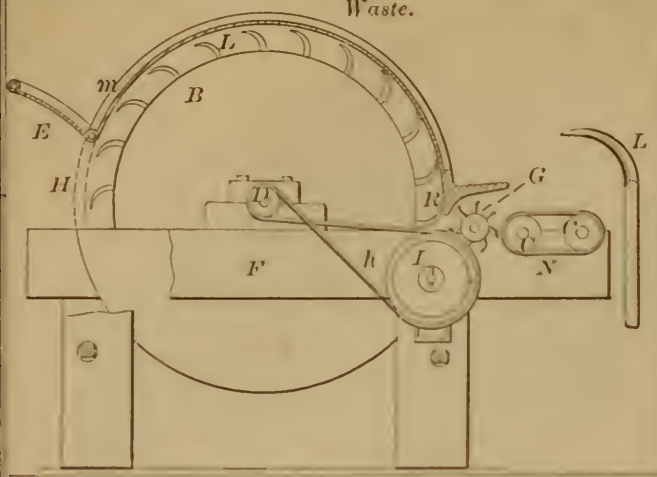
80719—J. F. Frye—*Ventilator.*



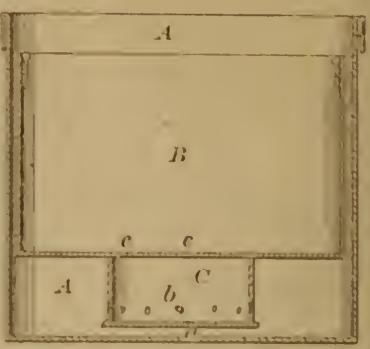
80723—E. Gill—*Extension Wardrobe Frame.*

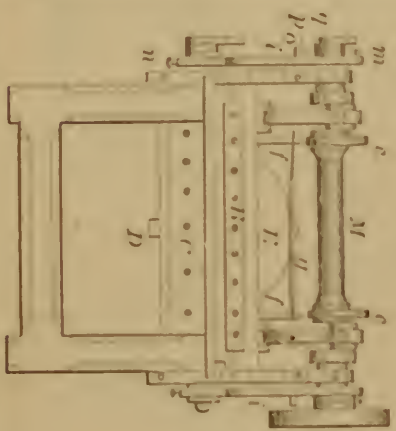


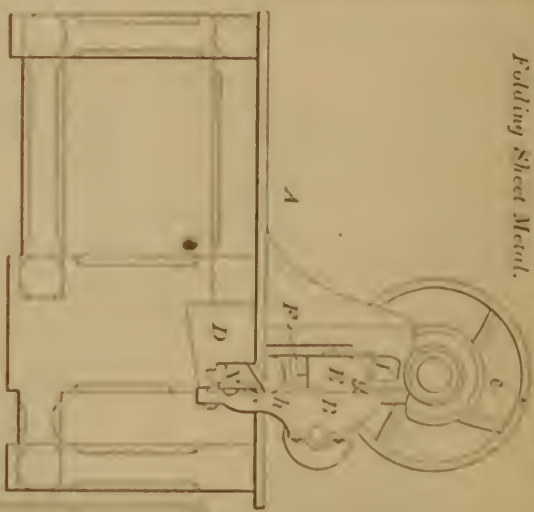
80724—D. Goff—*For Picking and Separating Cotton Waste.*



80727—A. W. Hall—*Wash Boiler.*

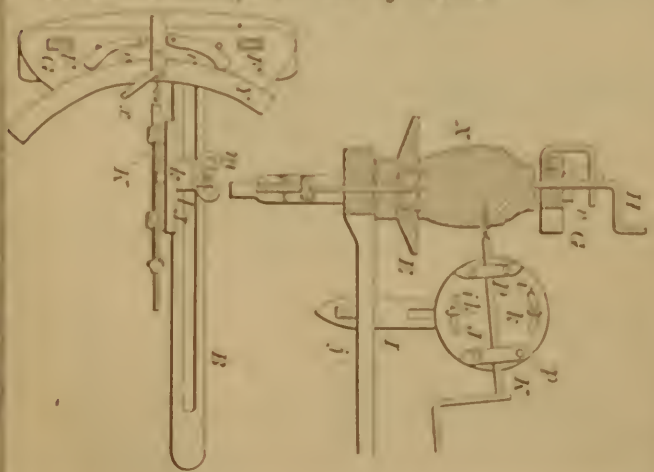




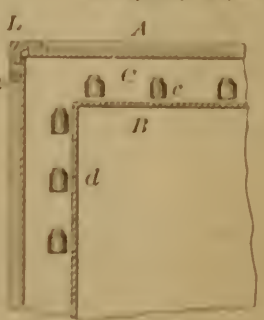


80725—A. G. Gray—*For Cutting and Folding Sheet Metal.*

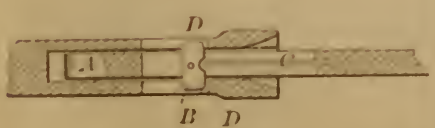
80726—H. Haag—*For Making Wheels.*



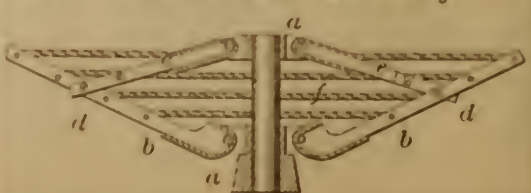
80728—J. L. Hall—*Fireproof Safe.*



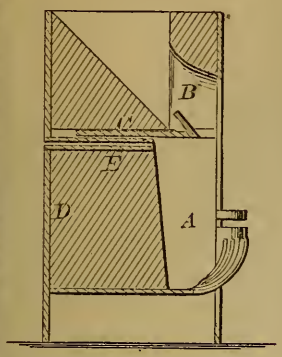
80730—C. R. Hardy—*Car Coupling.*



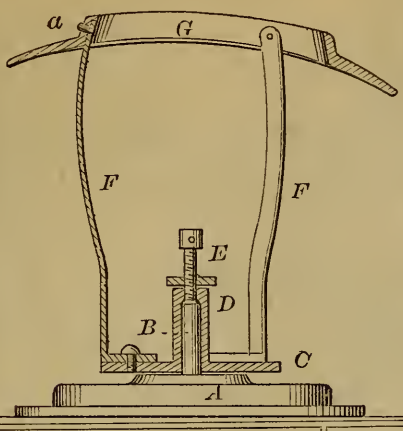
80729—G. H. Hammond—*Clothes Dryer.*



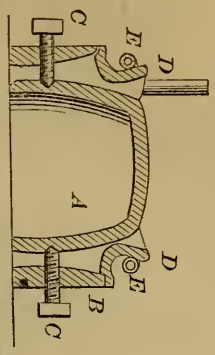
80731—D. Hattan—*Fireplace.*



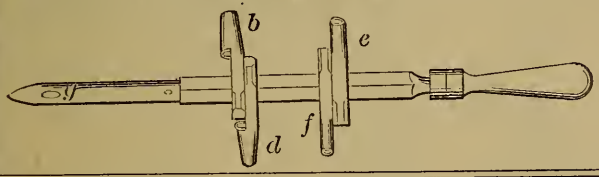
80732—C. M. Hawes—*For Trimming Hat Brims.*



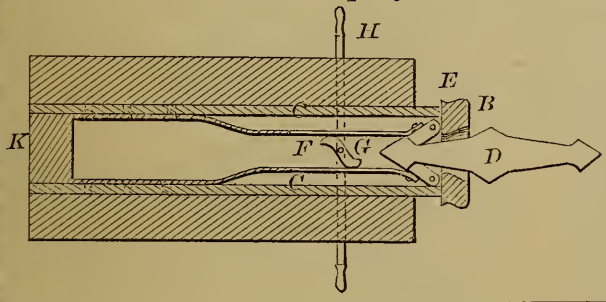
80733—G. H. Hawkins—*For Blocking and Stretching Hats.*



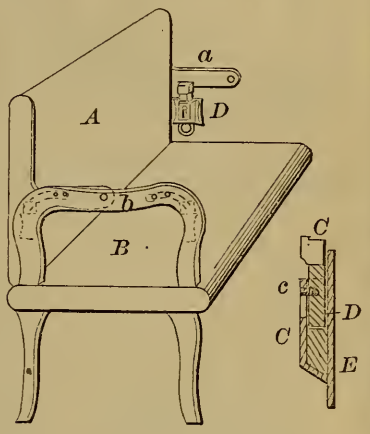
80734—E. Hester—*Belt Punch.*



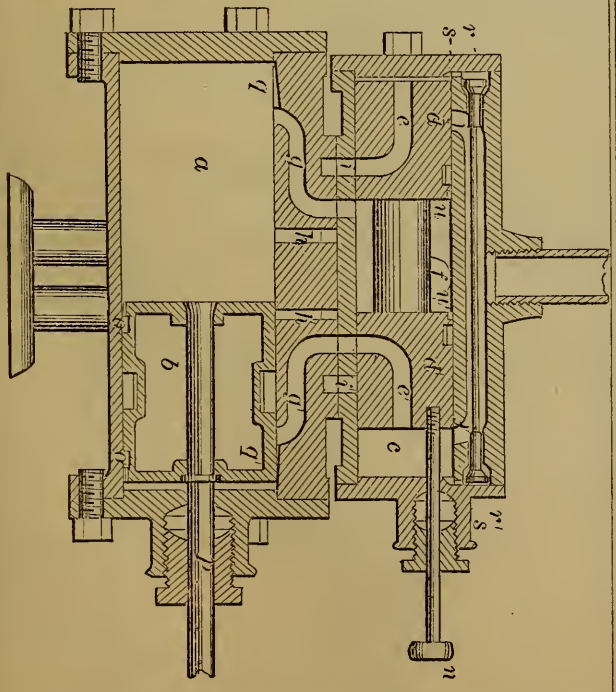
80735—O. Hewes—*Car Coupling.*



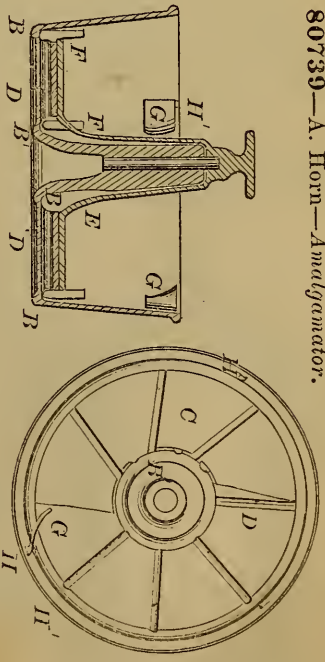
80736—G. Higginson—*Support for Car Seat Backs.*



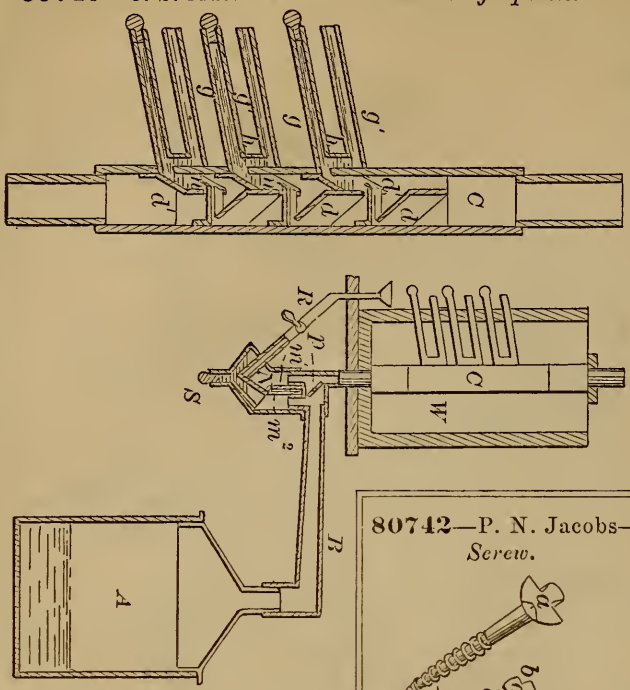
80738—W. D. Hooker—*Steam Engine Valve.*



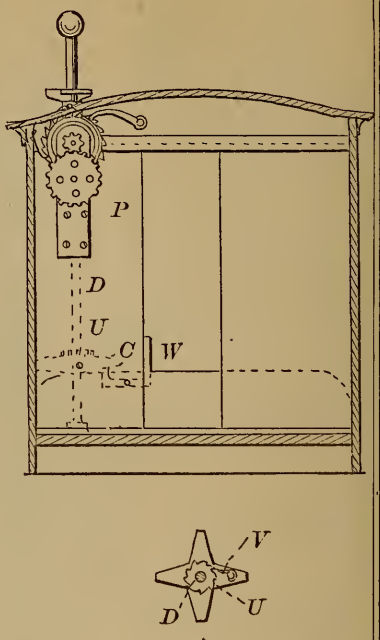
80739—A. Horn—*Amalgamator.*



80740—C. S. Hutchinson—*For Distilling Spirits.*

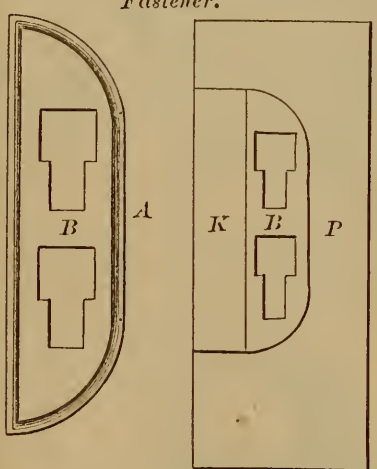


80741—T. Jacobs—*Passenger Register.*

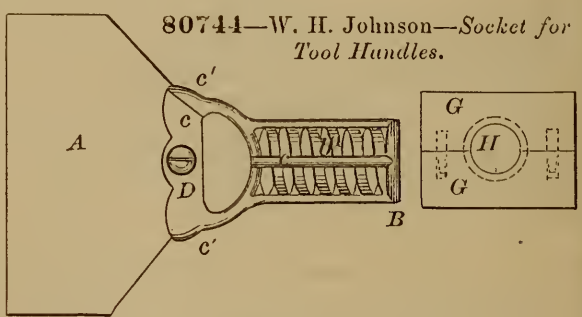


80742—P. N. Jacobs—*Screw.*

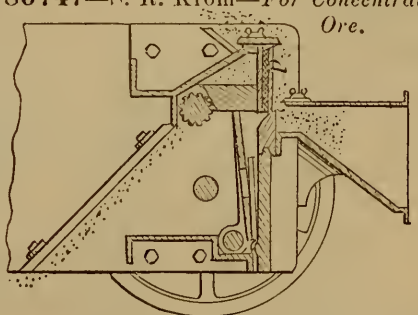
80743—J. Janeway—*Bedstead Fastener.*



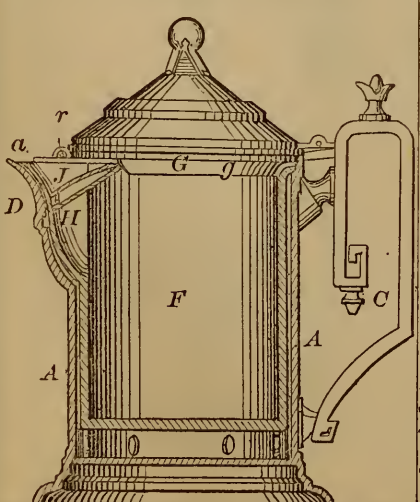
80744—W. H. Johnson—*Socket for Tool Handles.*



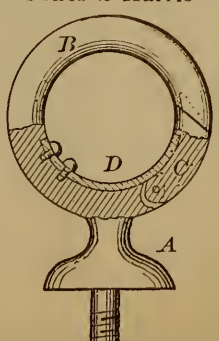
80747—S. R. Krom—*For Concentrating Ore.*



80748—T. Leach—*Ice Pitcher.*

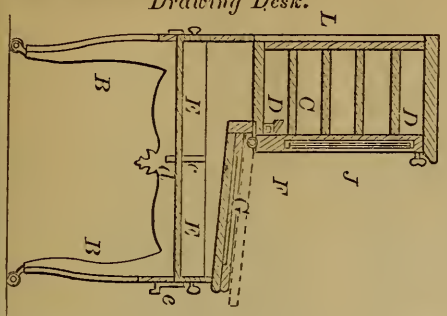


80745—Jones & Harris—*Terret.*

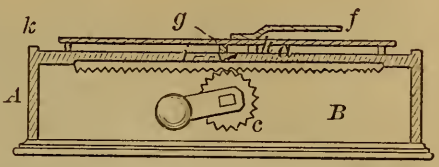


80746—J. F. Klinglesmith—*Hand Corn Planter.*

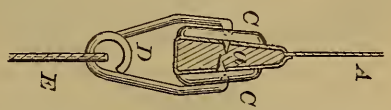
80749—W. W. Levering—*Writing and Drawing Desk.*



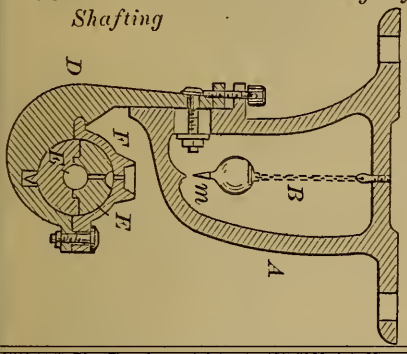
80751—M. W. Long—*Stove Oven.*



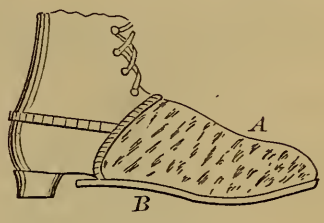
80750—D. E. Long—*Curtain Fixture.*



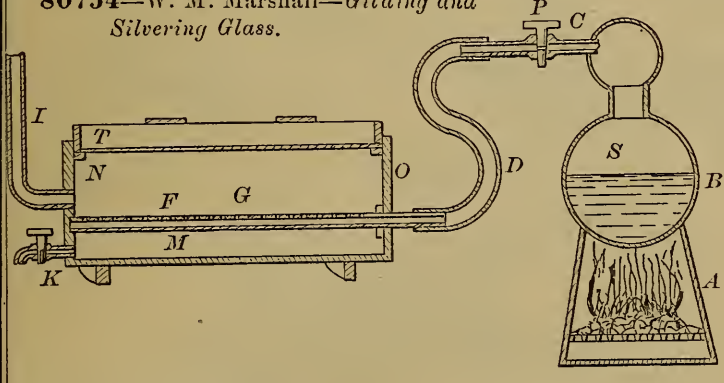
80752—J. W. Loraine—*Hanger for Shafting*



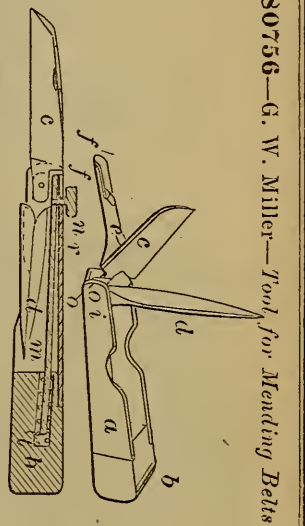
80753—W. M. Marshall—*Foot Muff.*



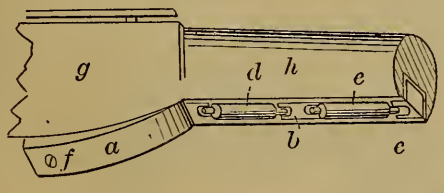
80754—W. M. Marshall—*Gilding and Silvering Glass.*



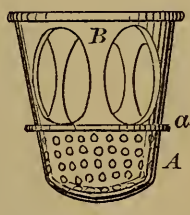
80756—G. W. Miller—*Tool for Mending Belts.*



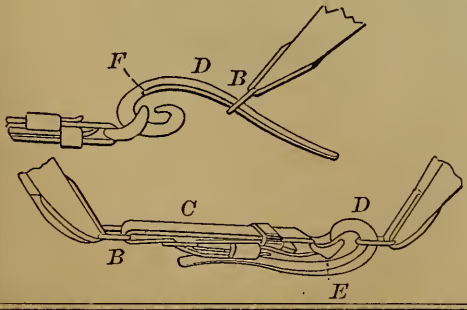
80758—Morrett & Watts—*Wagon Skein*



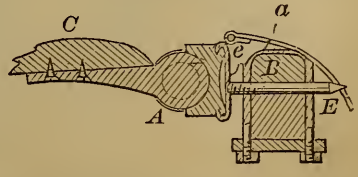
80755—J. E. McBeth—*Thimble.*



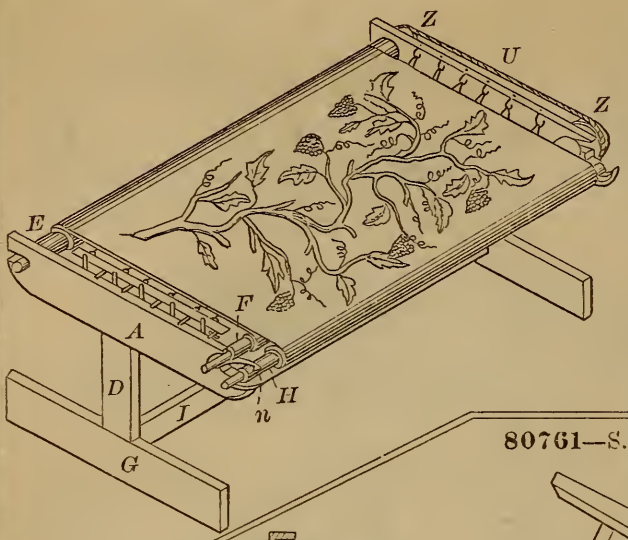
80757—J. D. Miller—*Hames Fastener.*



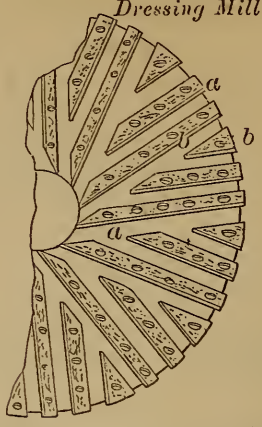
80759—J. H. Mulford—*Wagon Shaft Coupling.*



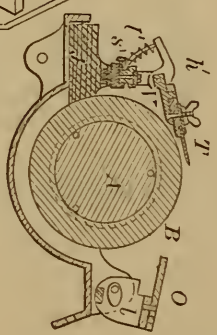
80760—S. H. Nesbit—*Quilting Frame.*

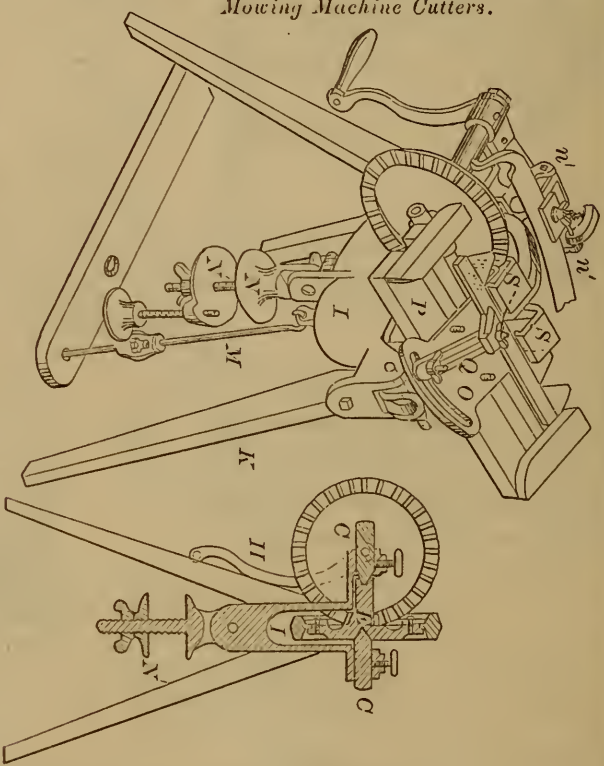


80762—J. Pannabecker—*Dressing Mill Stones.*

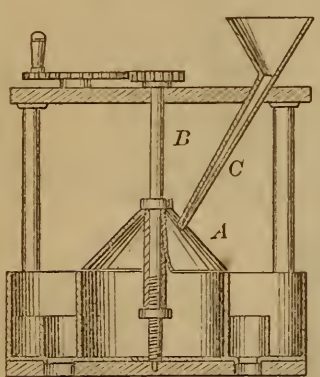


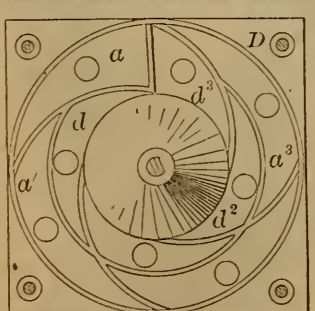
80761—S. W. & J. F. Palmer—*For Grinding Mowing Machine Cutters.*



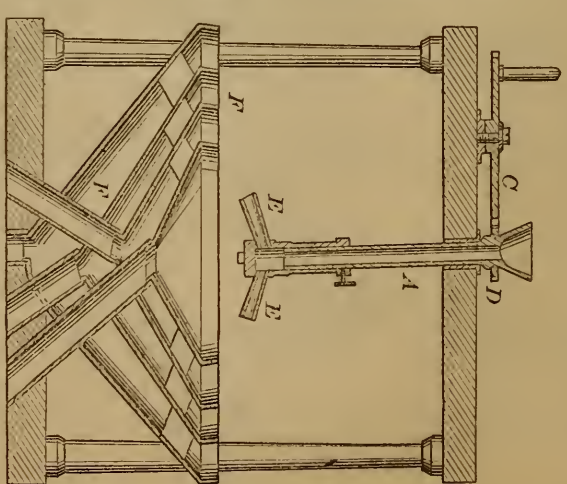


80763—S. T. Pearce—*For Separating Ores.*

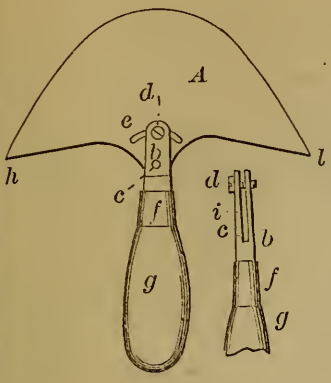




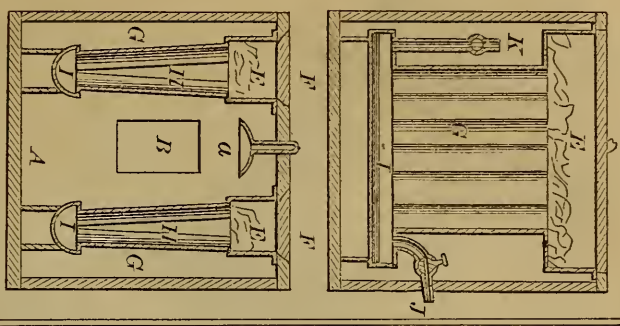
80764—S. T. Pearce—*For Separating Ores.*



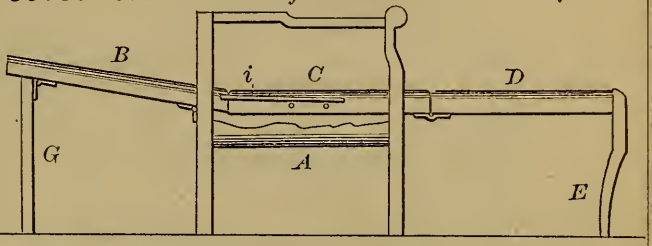
80765—J. H. Quackenbush—*Harness Round Knife.*



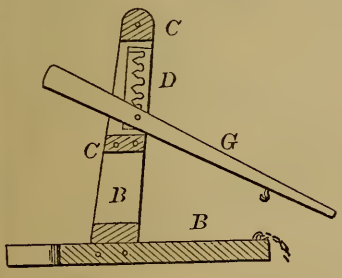
80766—J. H. Racy, Jr.—*Refrigerating Chamber.*



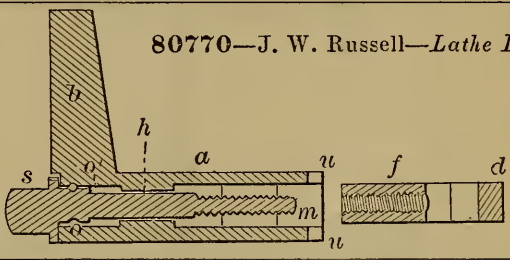
80767—J. B. Reith—*Sofa and Bed.*



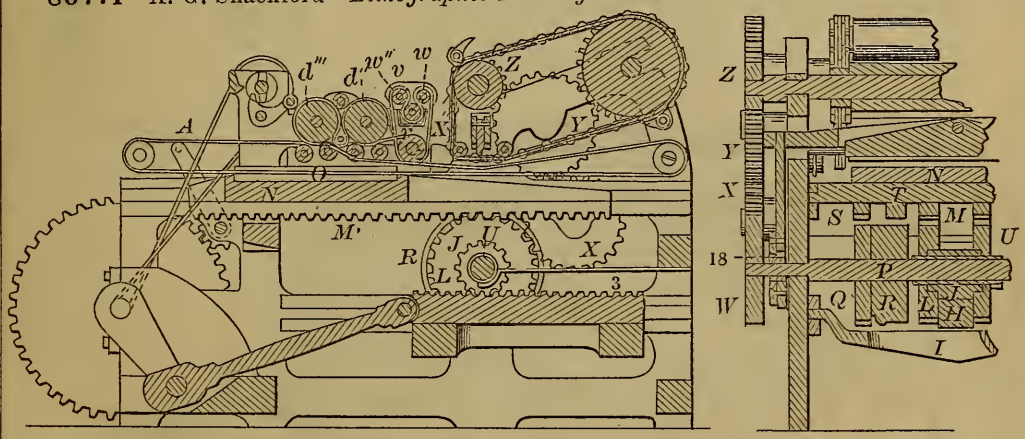
80768—S. Rice—*Wagon Jack.*

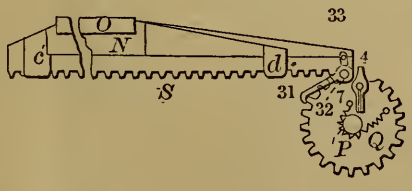


80770—J. W. Russell—*Lathe Dog.*

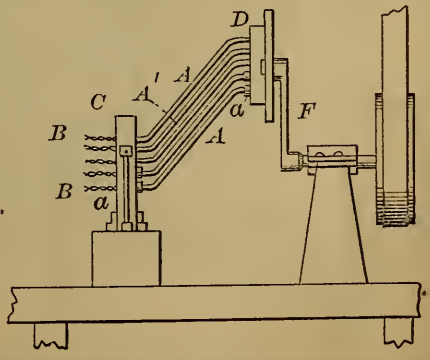


80771—A. G. Shackford—*Lithographic Printing Press.*

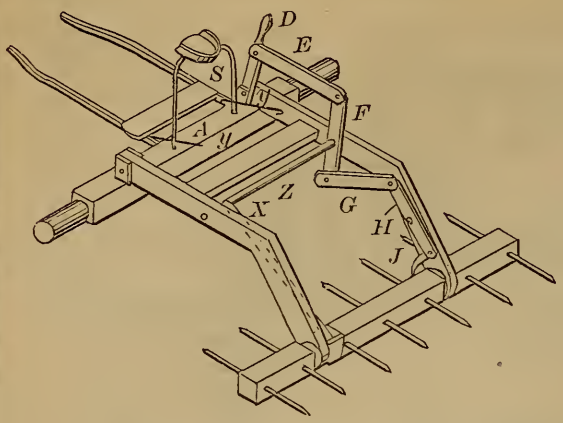




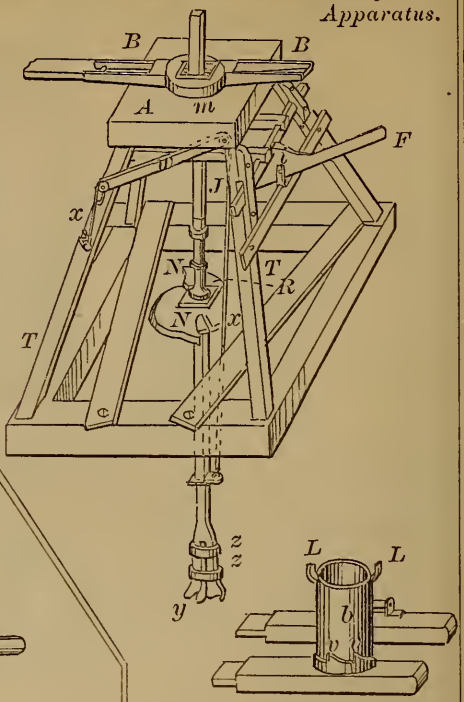
80769—C. F. Ritchel—*Serial Crank.*



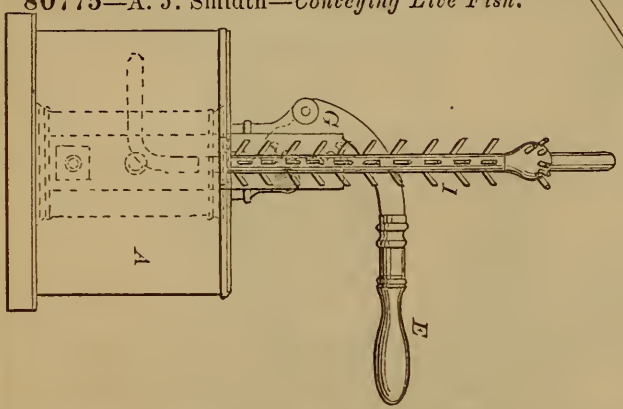
80772—T. J. Shreves—*Horse Rake.*



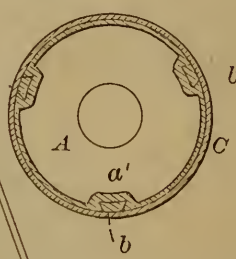
80773—W. Skiff—*Well Boring Apparatus.*



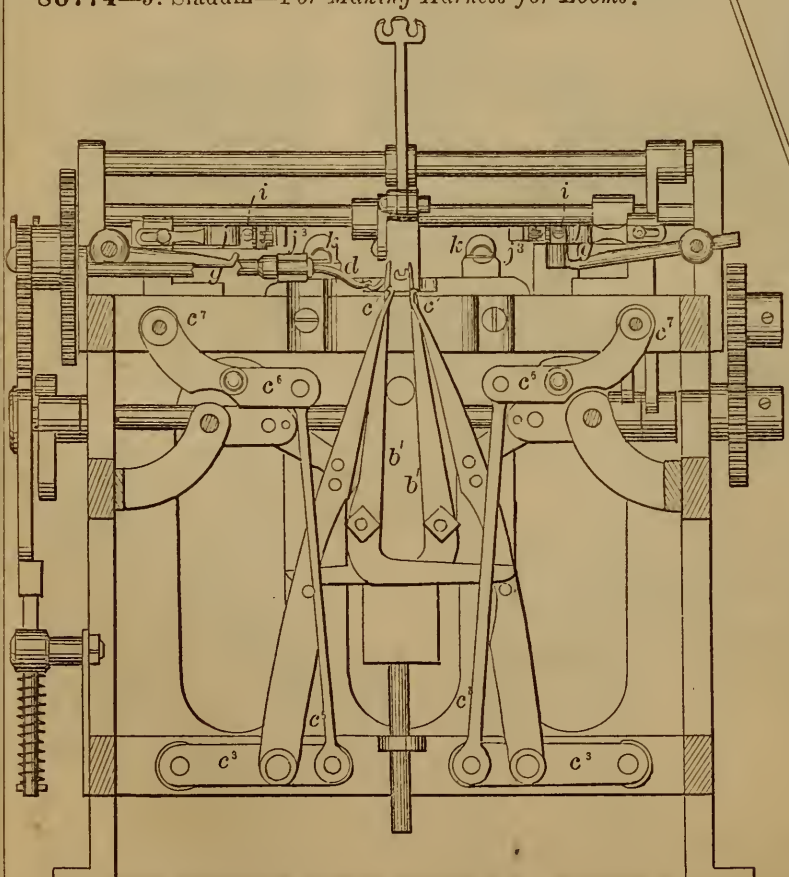
80775—A. J. Smidth—*Conveying Live Fish.*



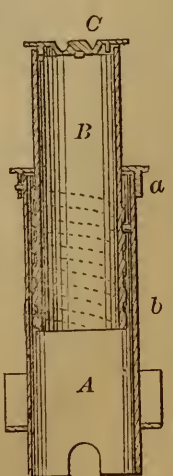
80777—J. P. Smith—*Pulley.*



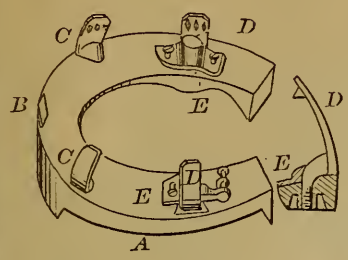
80774—J. Sladdin—*For Making Harness for Looms.*



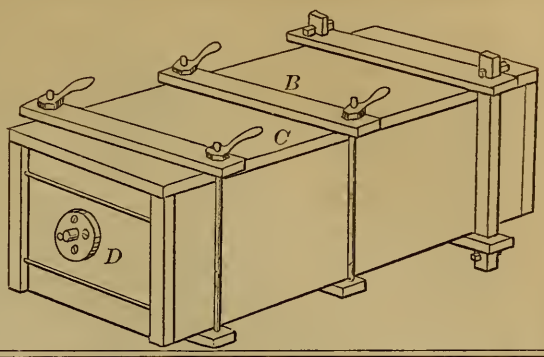
80776—J. Smith—*Stop Box for Cocks or Valves.*



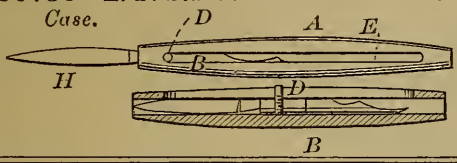
80778—L. A. Smith—*Horse Shoe.*



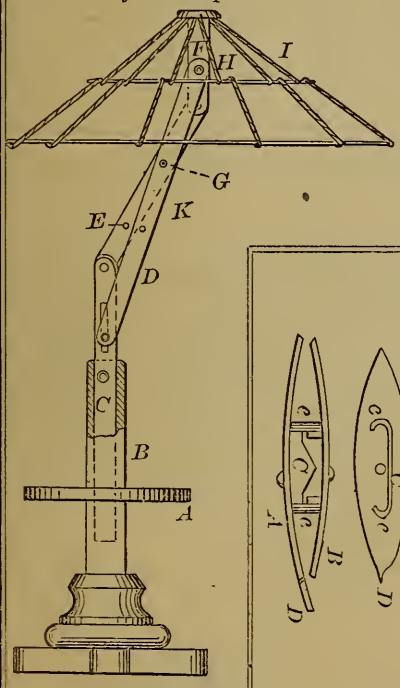
80779—S. Snyder—*Tanning.*



80780—L. F. Standish—*Pen and Pencil Case.*

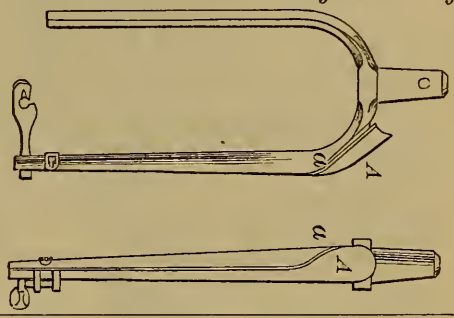


80782—Strasser & Lewy—*Stand for Mosquito Nets.*

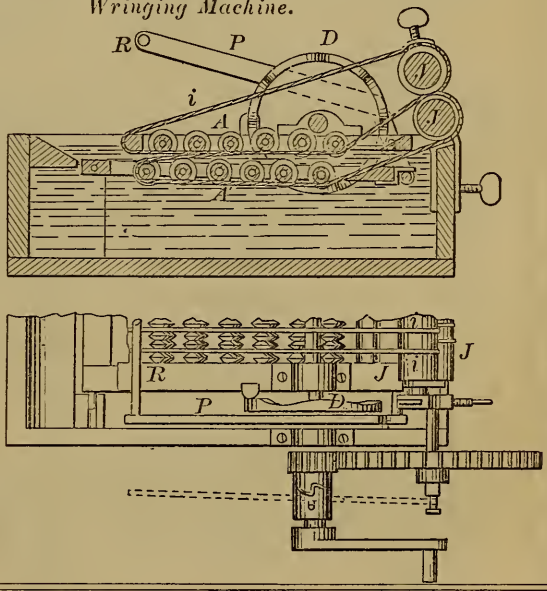


80781—Stockwell & Goodwin—*Tatting Shuttle.*

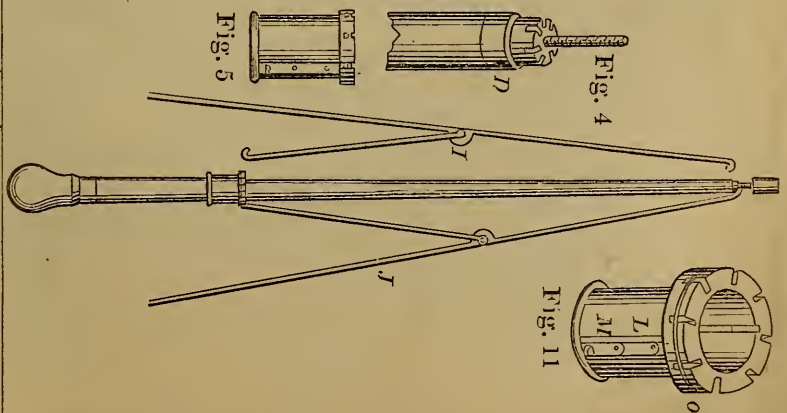
80783—J. S. Streeter—*Fly Frame Flyer.*



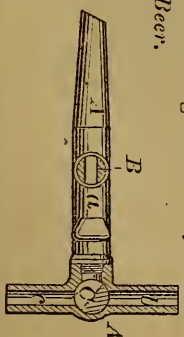
80784—R. K. Tomlinson—*Washing and Wringing Machine.*



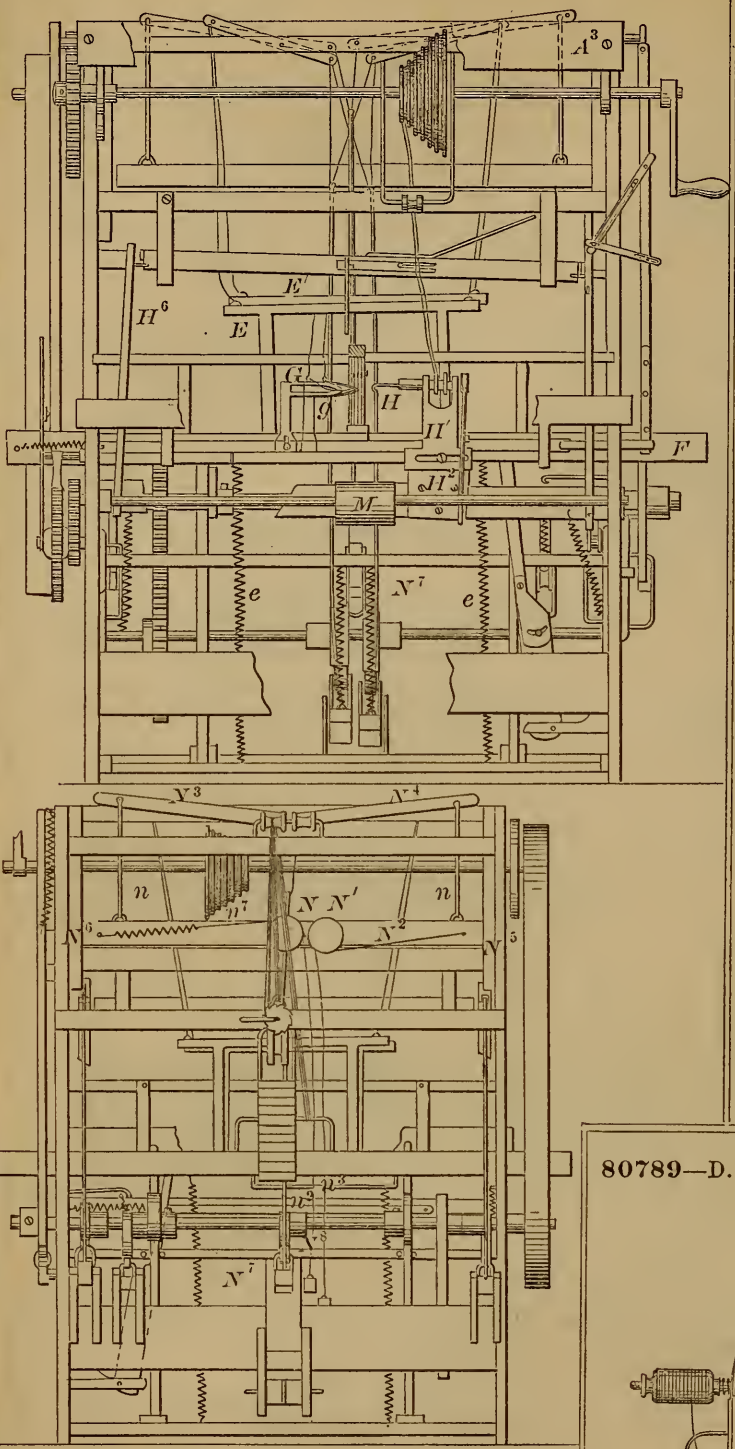
80785—W. F. Turner—*Umbrella.*



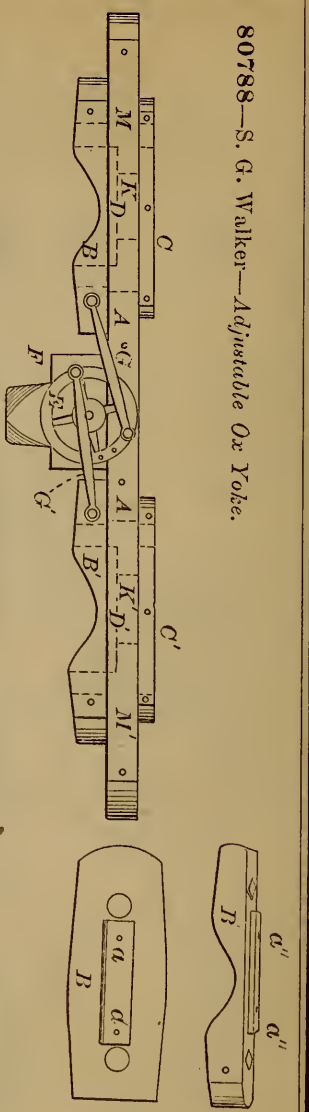
80787—F. Wagner—*Cock for Racking off Beer.*



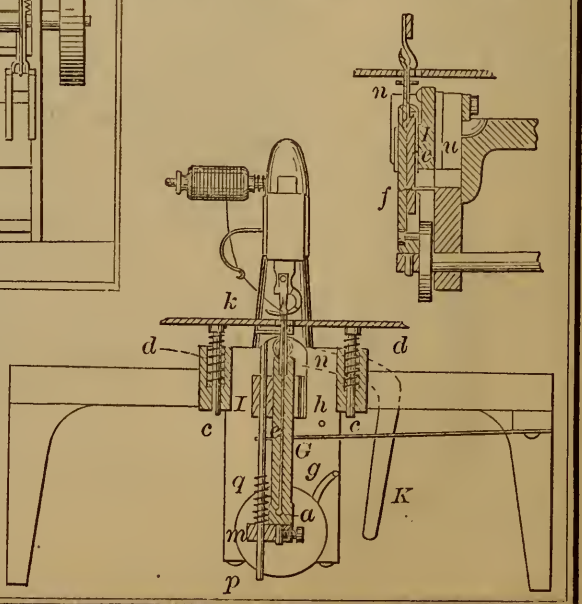
80786—L. D. Valetton—*Loom for Weaving Fringe.*



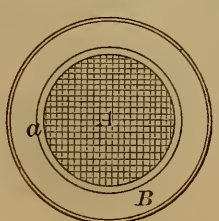
80788—S. G. Walker—*Adjustable Ox Yoke.*



80789—D. Weaver—*Sewing Machine.*



80790—W. Westlake—*Strainer.*



80795—H. Cowing—*Agricultural Machine.*

Fig. 3

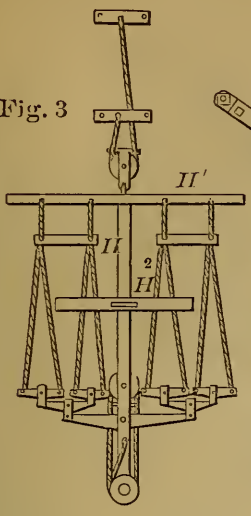


Fig. 2

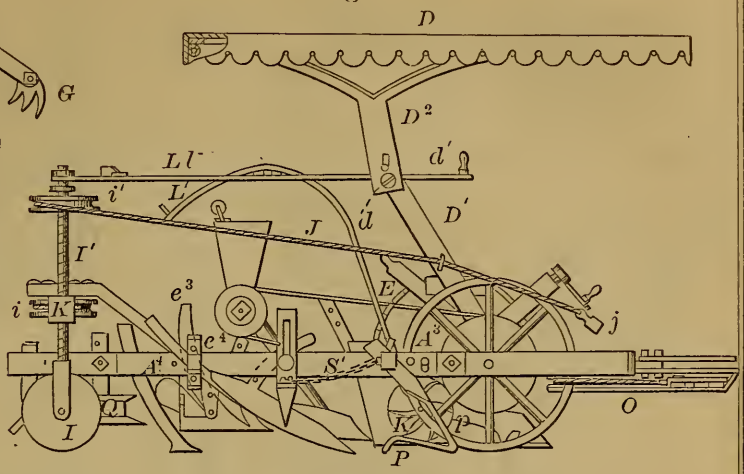


Fig. 4

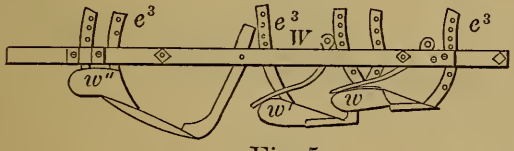


Fig. 5

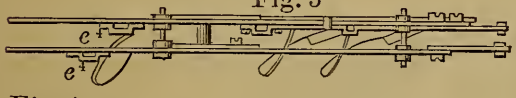


Fig. 8

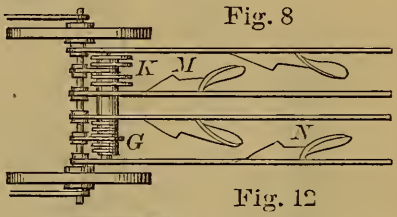


Fig. 12

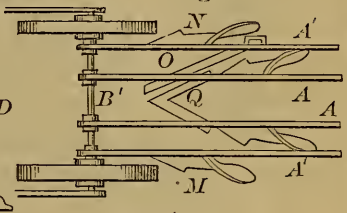


Fig. 1

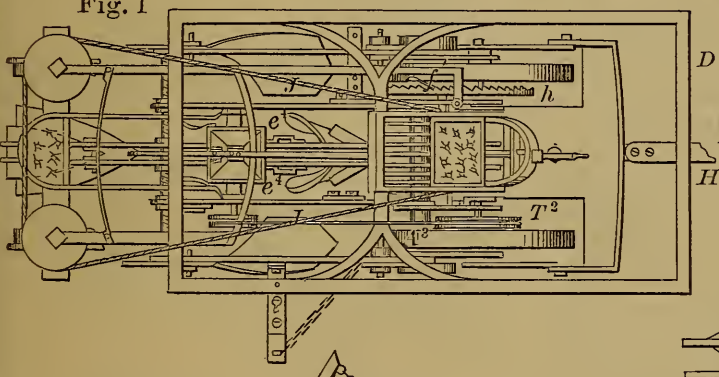


Fig. 13

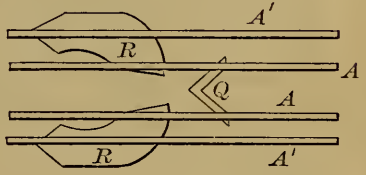


Fig. 10 and 11

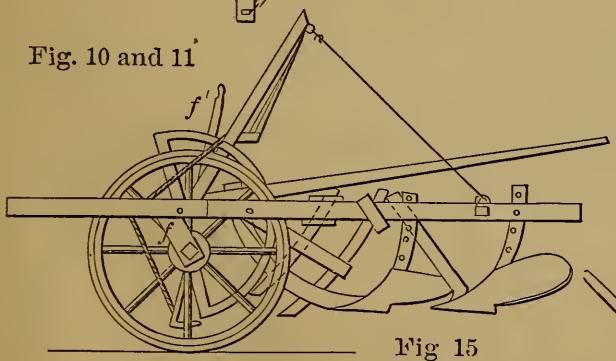
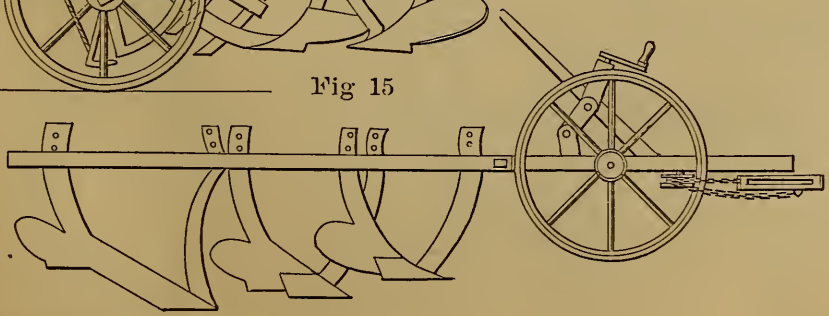
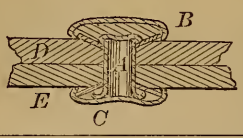


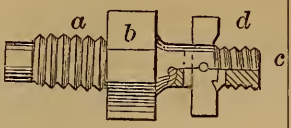
Fig 15



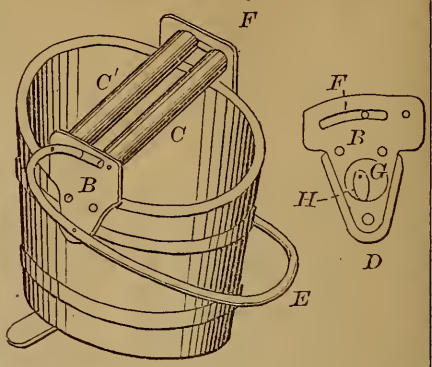
80791—E. S. Wheeler—*Rivet.*



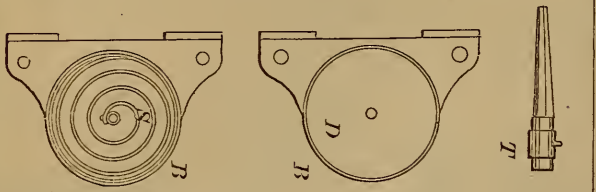
80792—H. F. Wheeler—*Nut Squaring Chuck.*



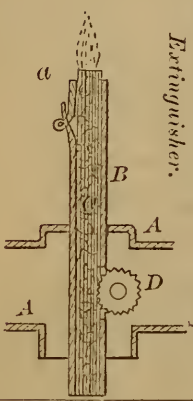
80794—E. Youngs—*Mop and Clothes Wringer.*



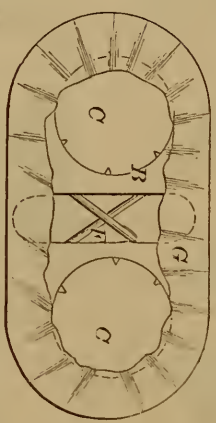
80793—W. H. Woods—*Curtain Fixture.*



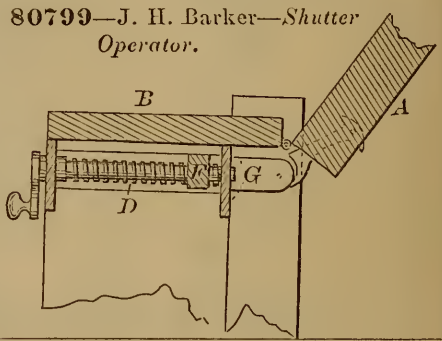
80796—C. E. Abbott—*Lamp Extinguisher.*



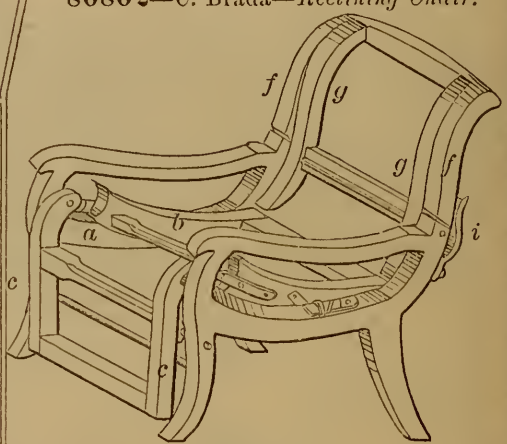
80797—J. Adams—*Wash Boiler.*



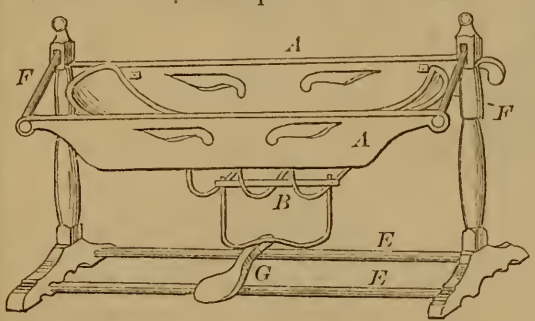
80799—J. H. Barker—*Shutter Operator.*



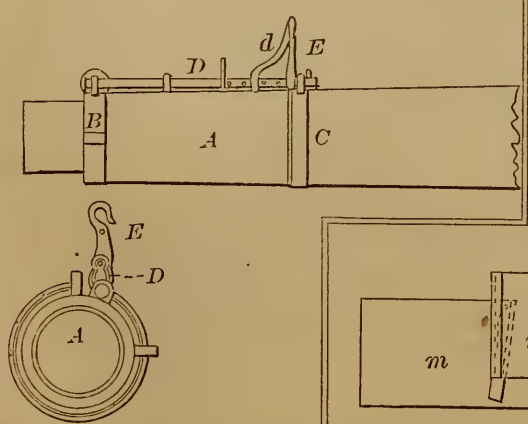
80802—C. Brada—*Reclining Chair.*



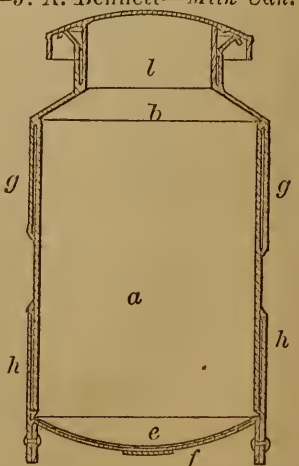
80801—Blood & Pope—*Couch or Cradle.*



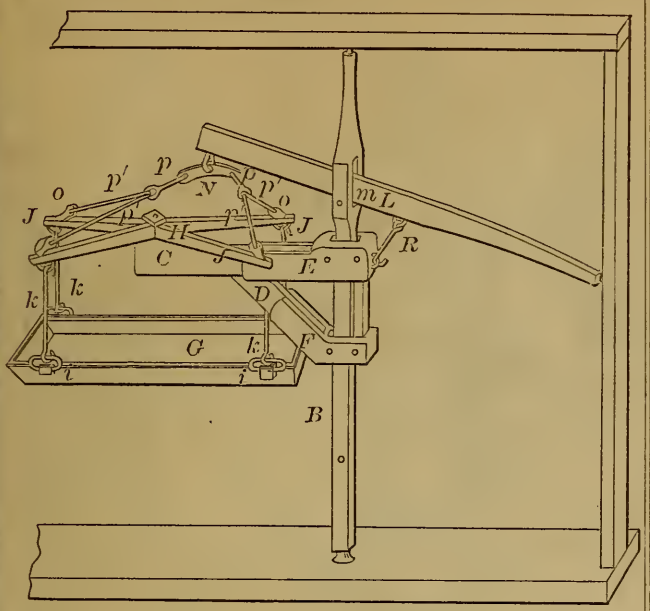
80803—C. S. Brown—*Supporting Attachment for Sails.*



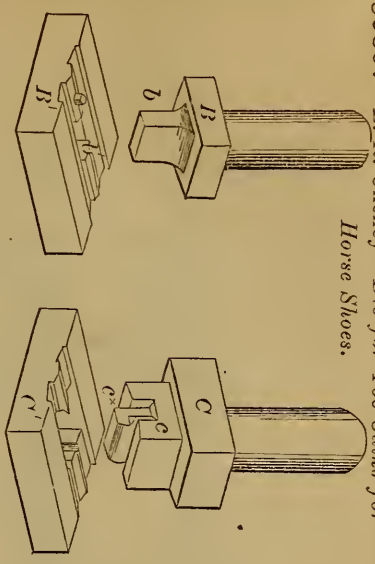
80800—J. A. Bennett—*Milk Can.*



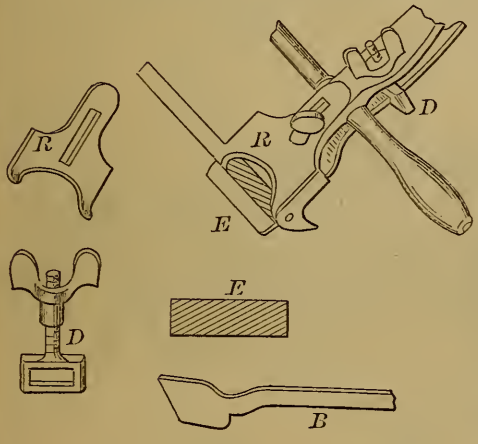
80804—O. W. & H. F. Burnham—*Elevator for Syrup Pans.*



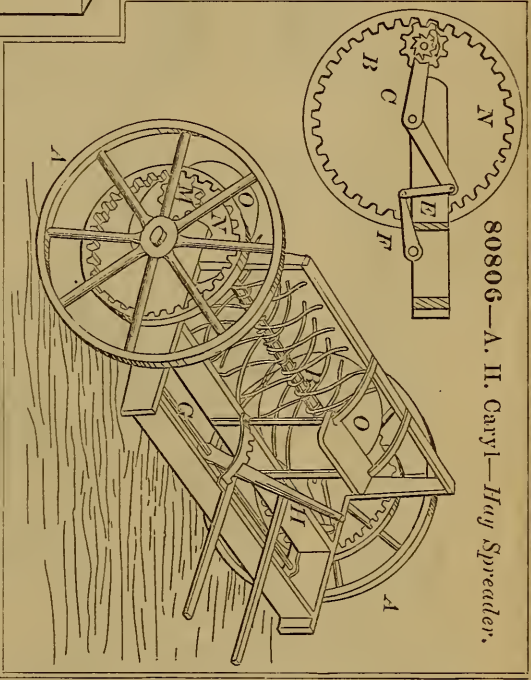
80807—E. R. Cheney—*Die for Toe Calks for Horse Shoes.*



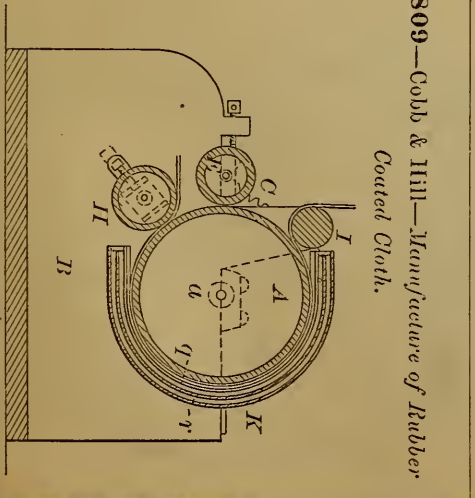
80805—E. A. Bushnell—*For Sharpening Horse Shoe Calks.*



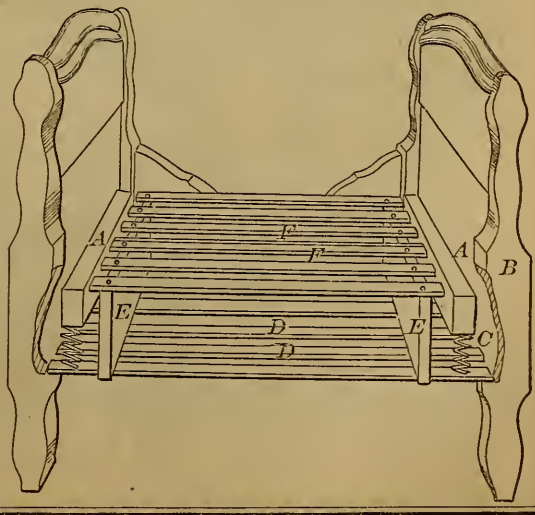
80806—A. H. Caryl—*Hay Spreader.*



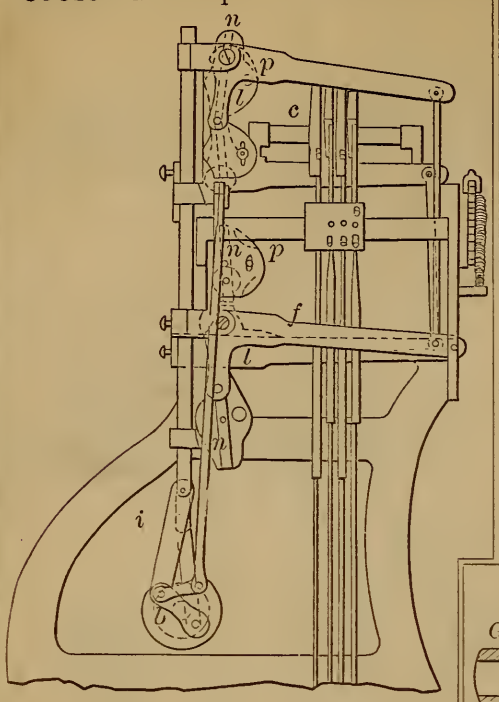
80809—Cobb & Hill—*Manufacture of Rubber Coated Cloth.*



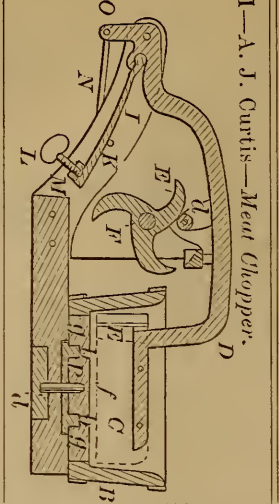
80808—H. F. Clark—*Bed Spring.*



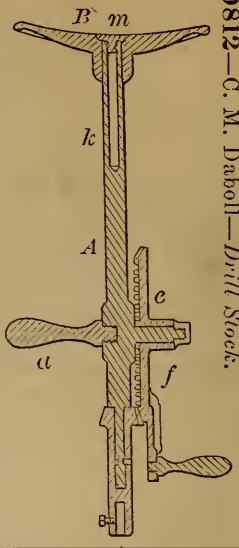
80810—G. Crompton—*Loom.*



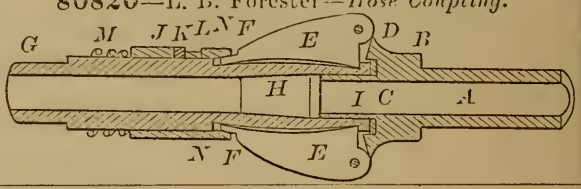
80811—A. J. Curtis—*Meat Chopper.*



80812—C. M. Daboll—*Drill Stock.*

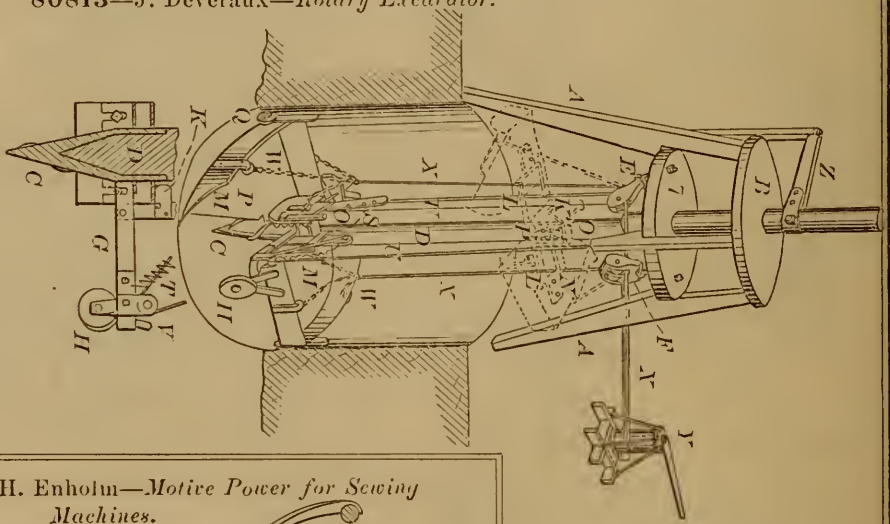


80820—L. B. Forester—*Hose Coupling.*

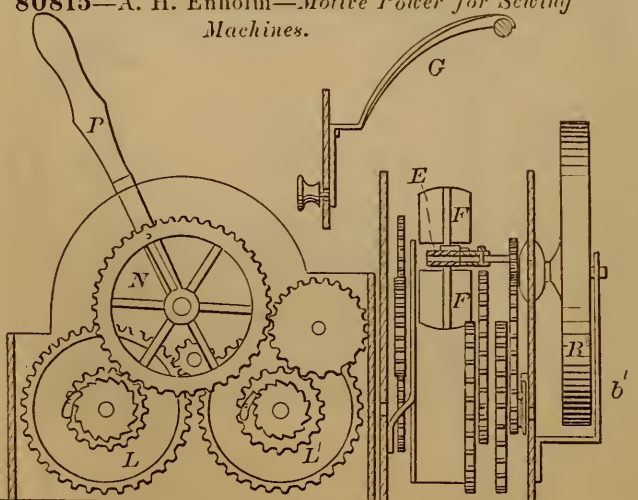


80816—J. E. Evarts—*Coffin.*

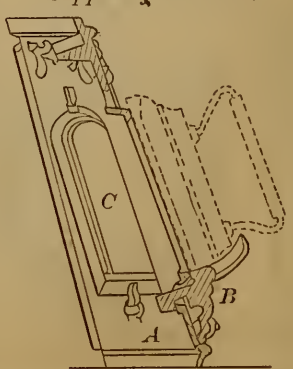
80813—J. Deveraux—*Rotary Excavator.*



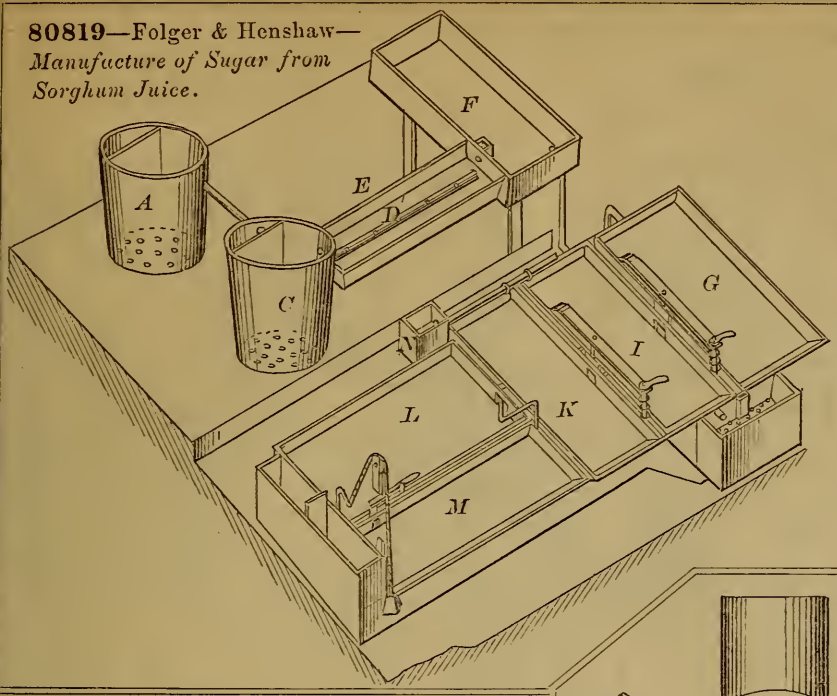
80815—A. H. Enholm—*Motive Power for Sewing Machines.*



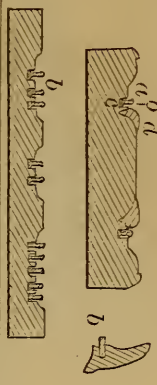
80814—A. Dickey—*Sad Iron Support for Stoves.*



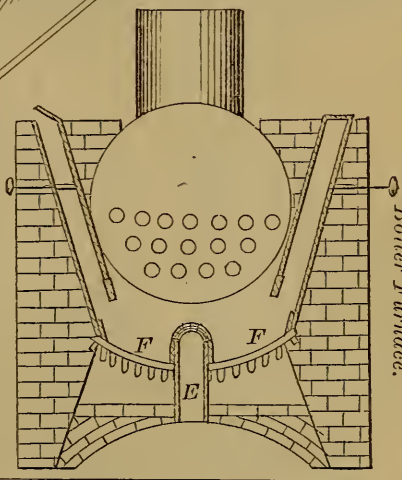
80819—Folger & Henshaw—*Manufacture of Sugar from Sorghum Juice.*



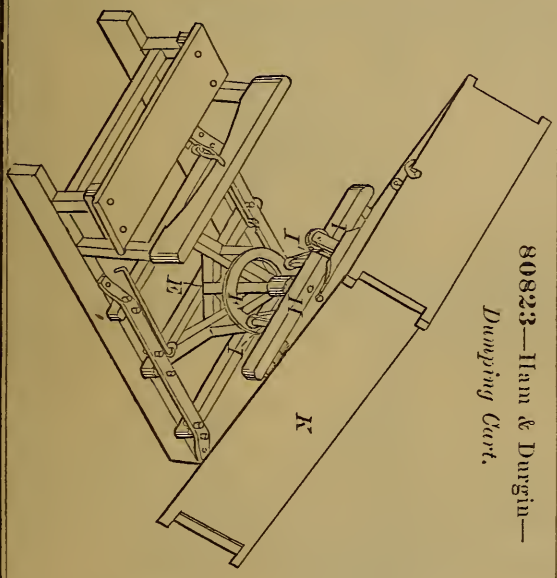
80822—J. J. Griffith—*Artificial Teeth.*



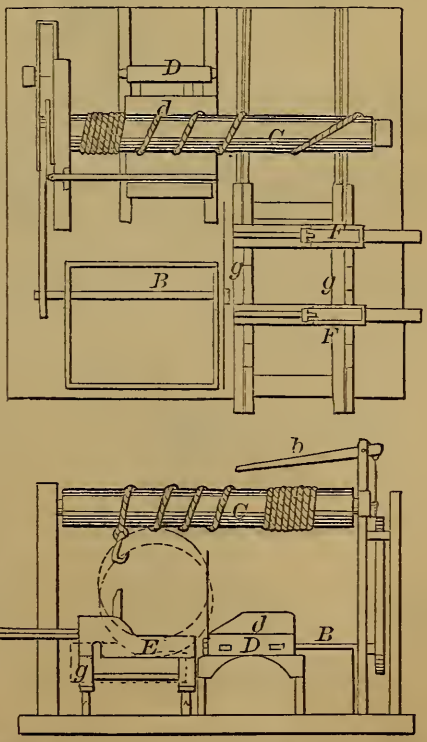
80821—Gardner & Swain—*Steam Boiler Furnace.*



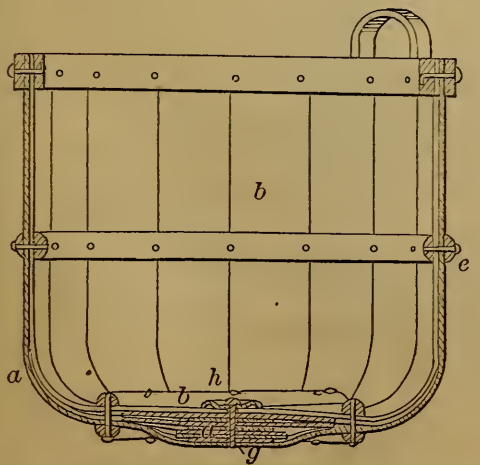
80823—Ham & Durgin—*Dumping Cart.*



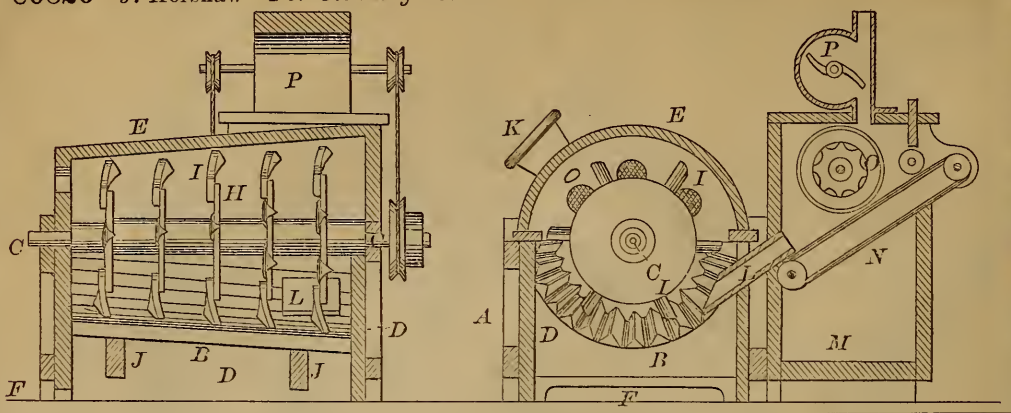
80824—M. Hillabold—*Saw Mill.*



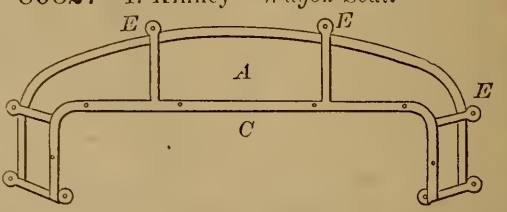
80825—H. C. Jones—*Basket.*



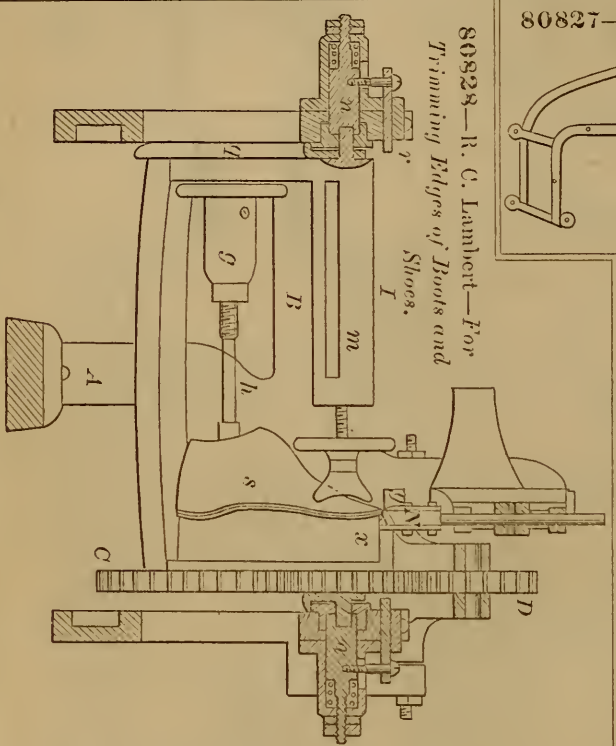
80826—J. Kershaw—*For Cleaning Cotton.*



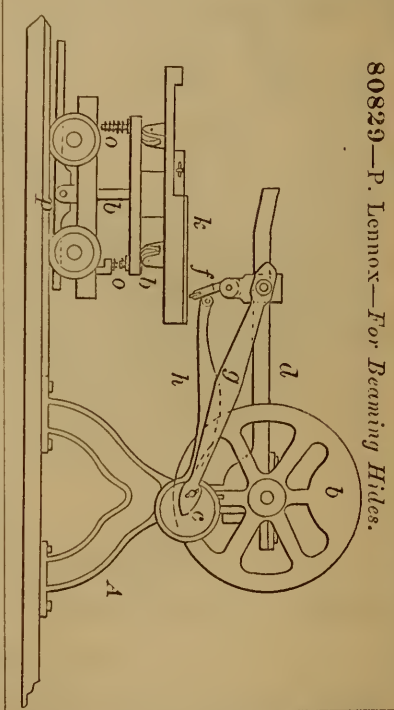
80827—I. Kinney—*Wagon Seat.*



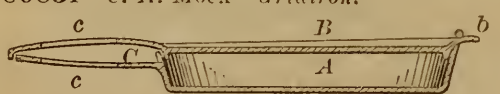
80828—R. C. Lambert—*For Trimming Edges of Boots and Shoes.*



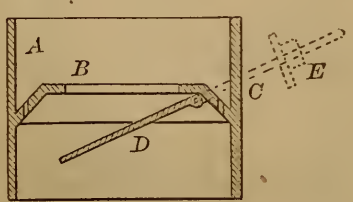
80829—P. Lennox—*For Beaming Hides.*



80831—C. H. Mock—*Gridiron.*

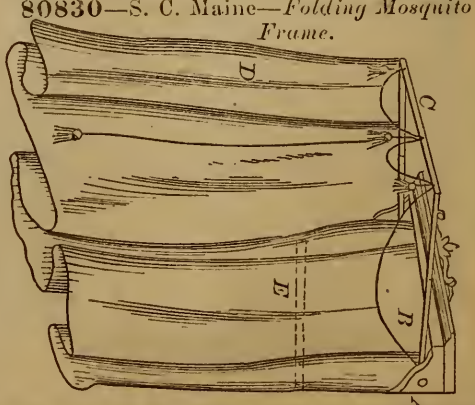


80832—F. D. Pastorius—*Stove Pipe Damper.*

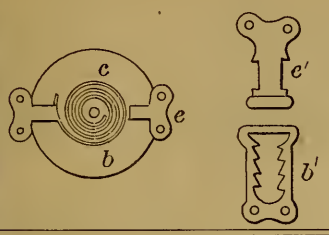


80833—L. Picot—*Comb.*

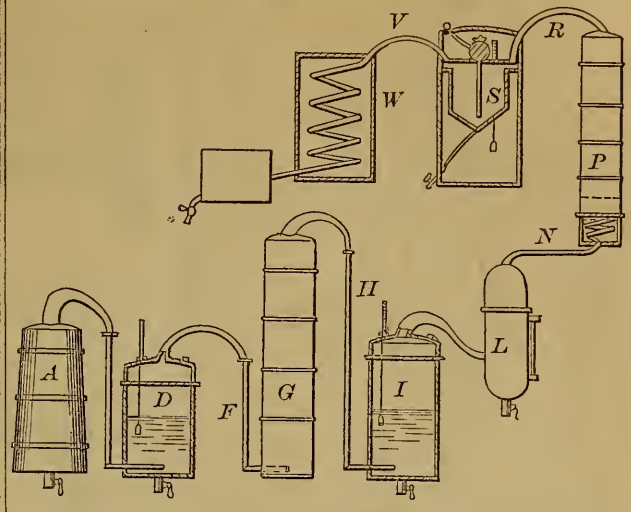
80830—S. C. Maine—*Folding Mosquito Frame.*



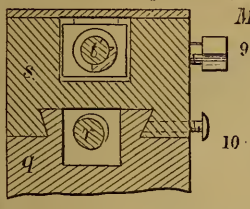
80834—E. W. Prussia—*Clasp for Boots and Shoes.*

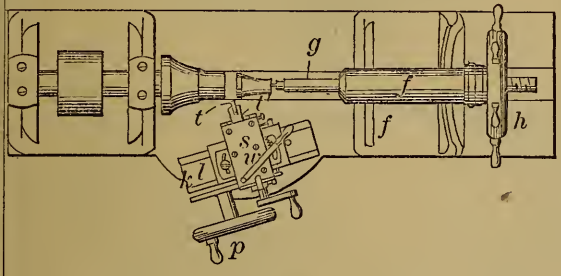


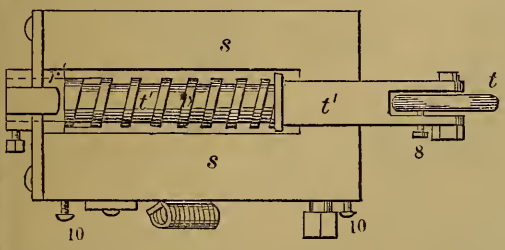
80835—F. Renz—*Manufacturing Sulphuric Ether.*



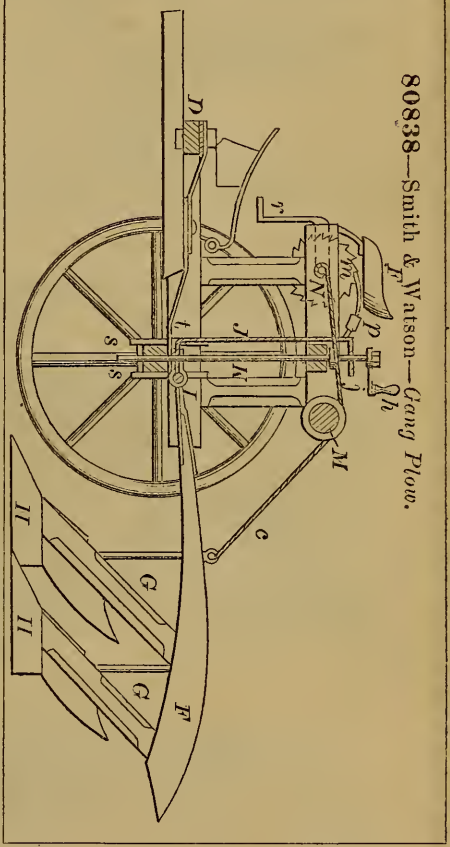
80836—F. J. Seymour—*For Burnishing and Spinning Metals.*



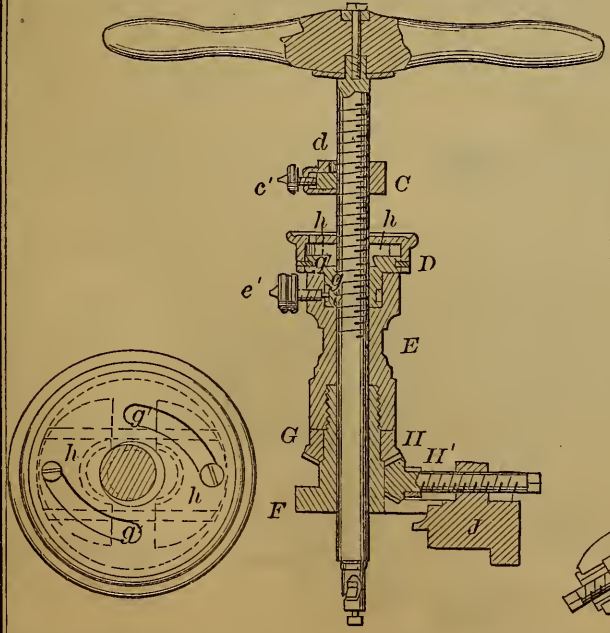


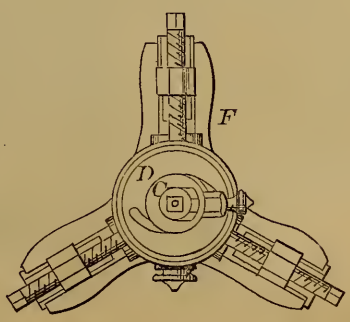


80838—Smith & Watson—*Gang Plow.*

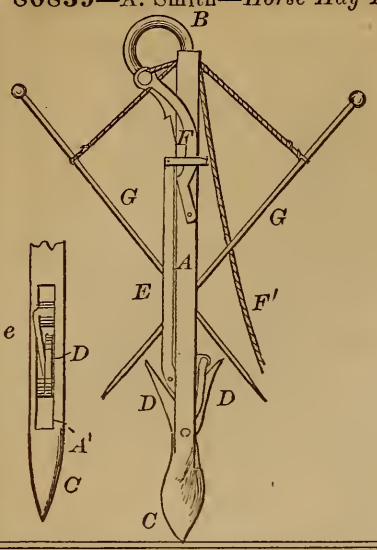


80837—A. R. Silver—*Hub Boring Machine.*

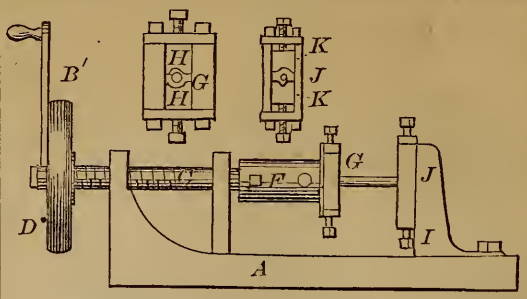




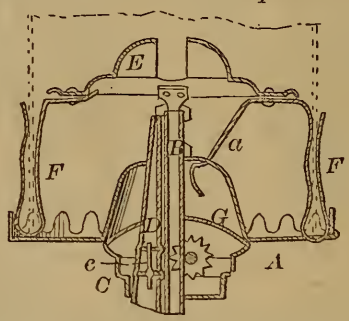
80839—A. Smith—*Horse Hay Fork.*



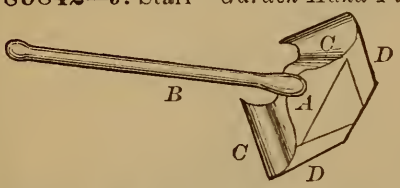
80840—V. Smith—*Screw Cutting Machine.*



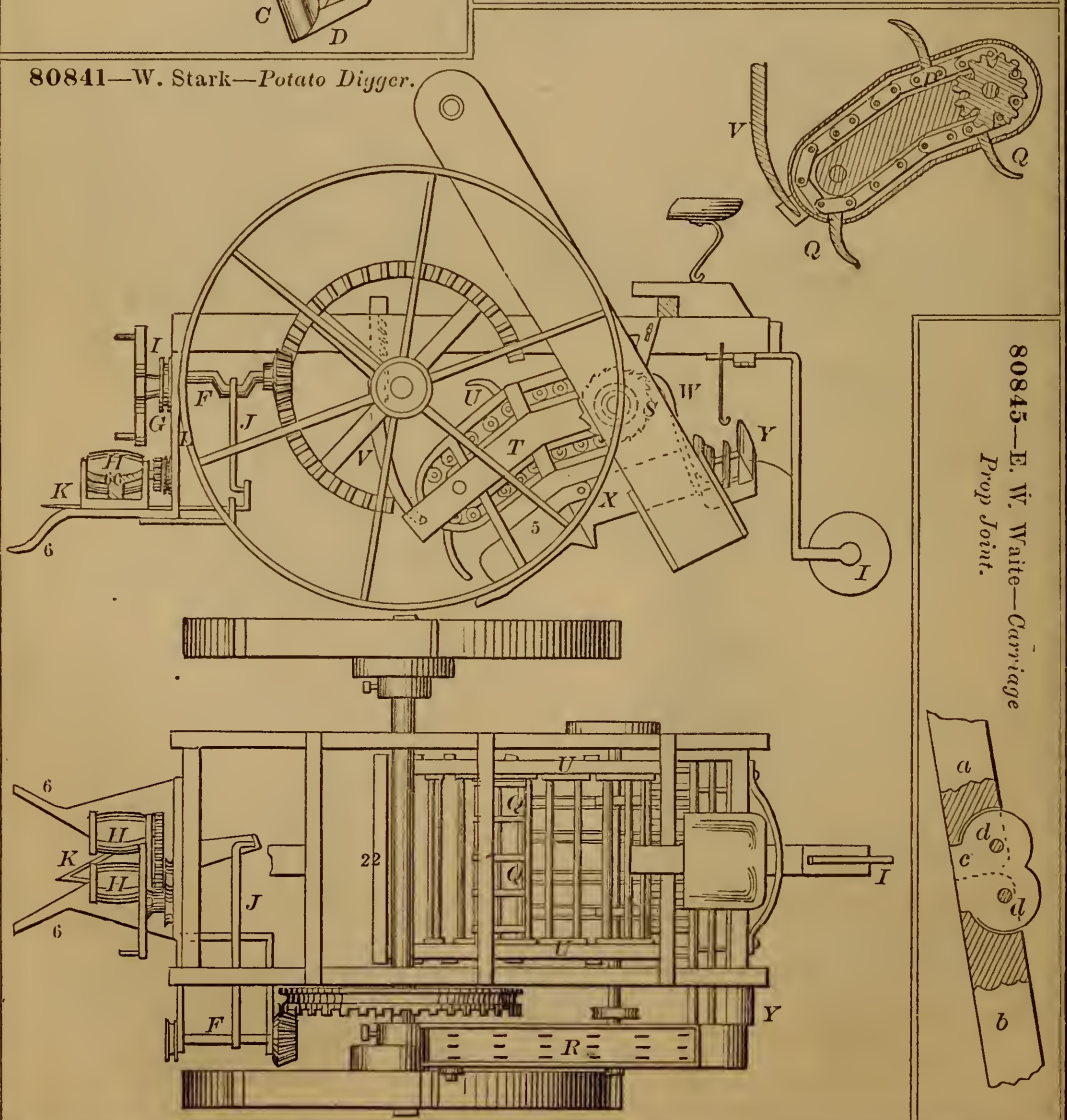
80843—E. J. Toof—*Lamp Burner.*



80842—J. Starr—*Garden Hand Plow.*

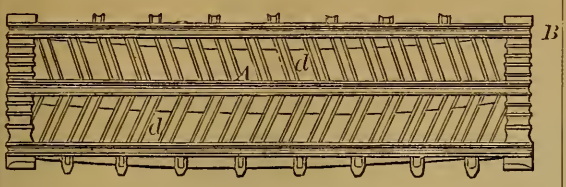


80841—W. Stark—*Potato Digger.*

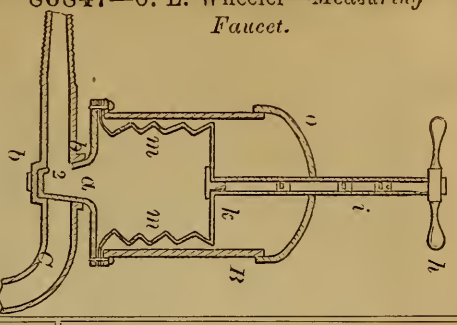


80845—E. W. Waite—*Carriage Prop Joint.*

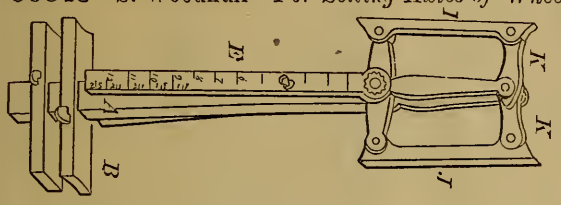
80844—J. Vandercar—*Fire Grate.*



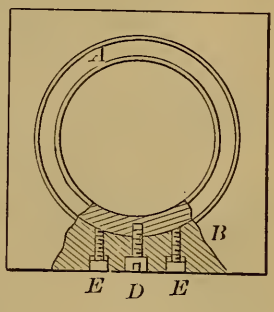
80847—O. L. Wheeler—*Measuring Faucet.*



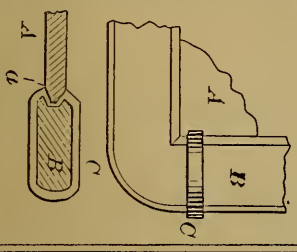
80848—S. Woodhull—*For Setting Axles of Wheels.*



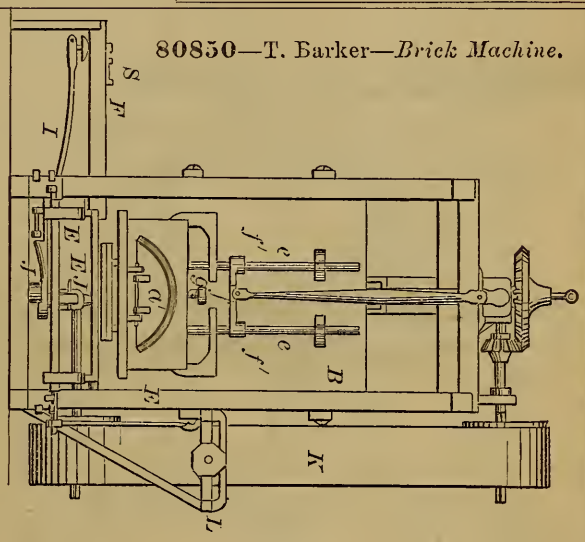
80849—J. Ashworth—*Ring Spinning Frame.*



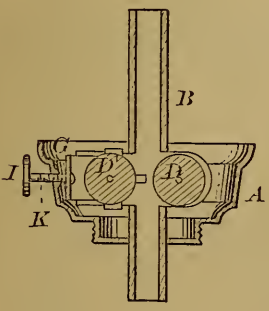
80846—C. Wendell—*Slate Frame.*

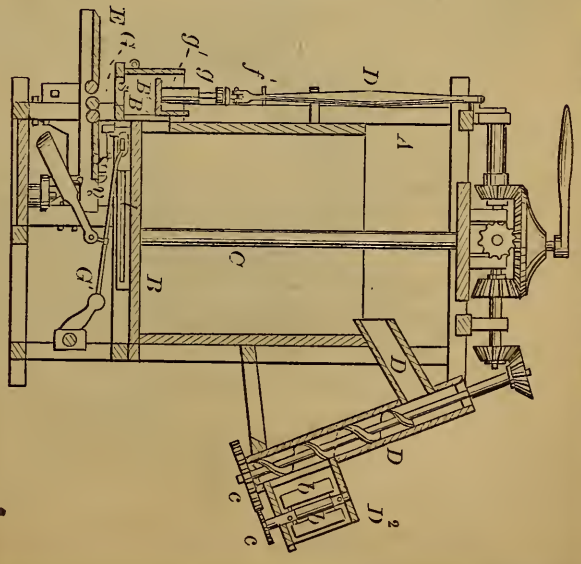


80850—T. Barker—*Brick Machine.*

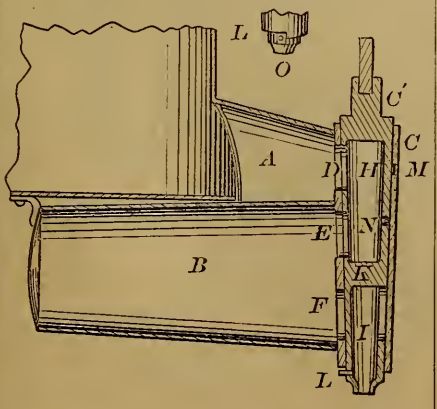


80851—Barson, Daniels & Farrell—*Lamp.*

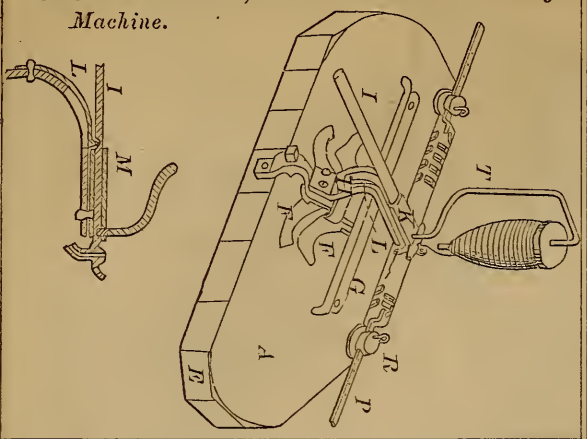




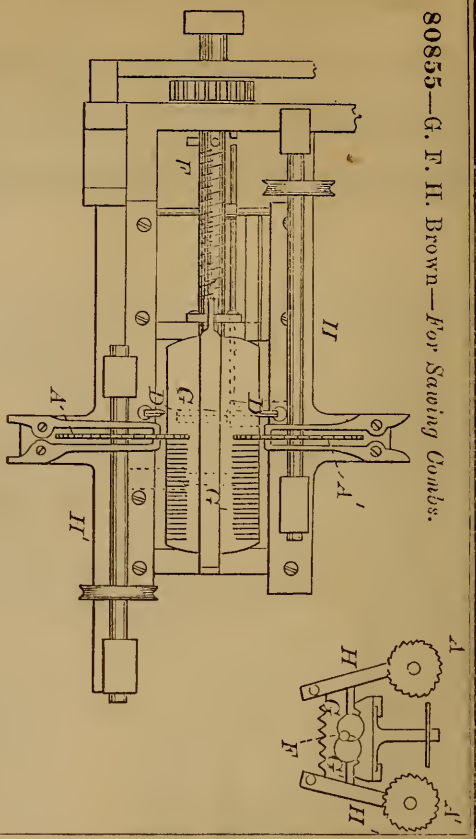
80852—Blake & Colony—*Measuring Faucet.*



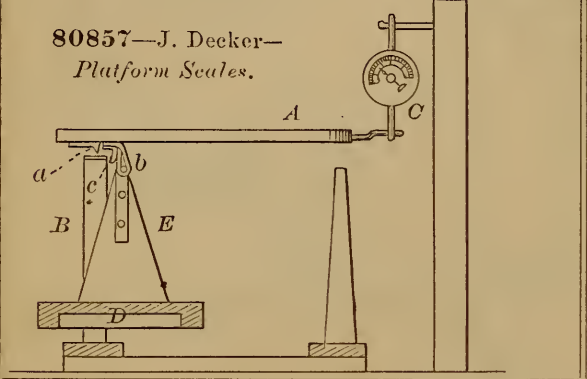
80853—Blakeslee, Davis & Beecher—*Knitting Machine.*



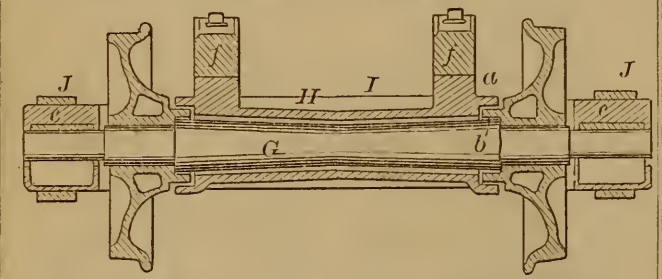
80855—G. F. H. Brown—*For Sawing Combs.*



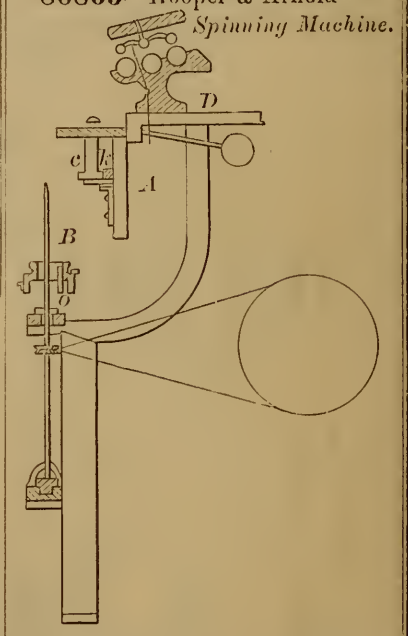
80857—J. Decker—*Platform Scales.*



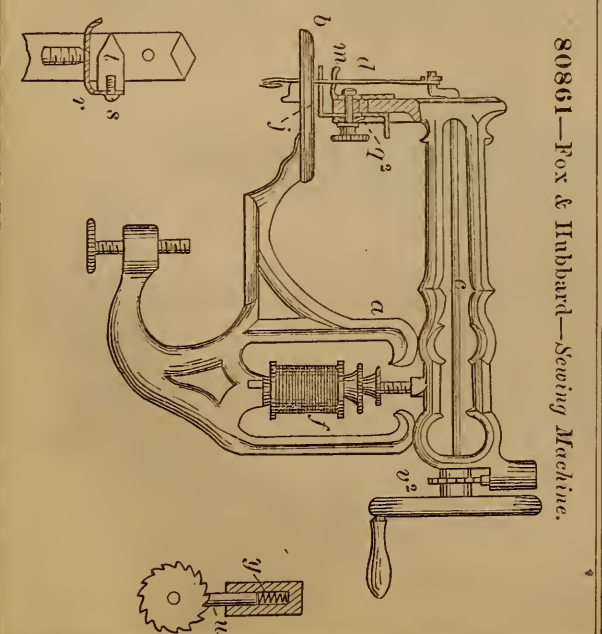
80858—J. H. Densmore—*Car Truck.*



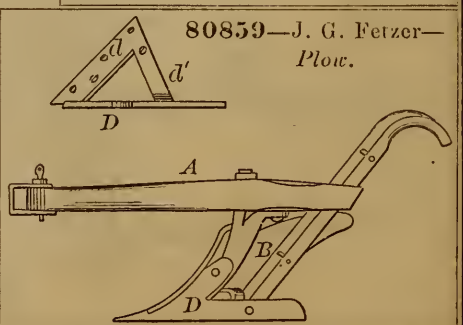
80863—Hooper & Arnold—*Spinning Machine.*



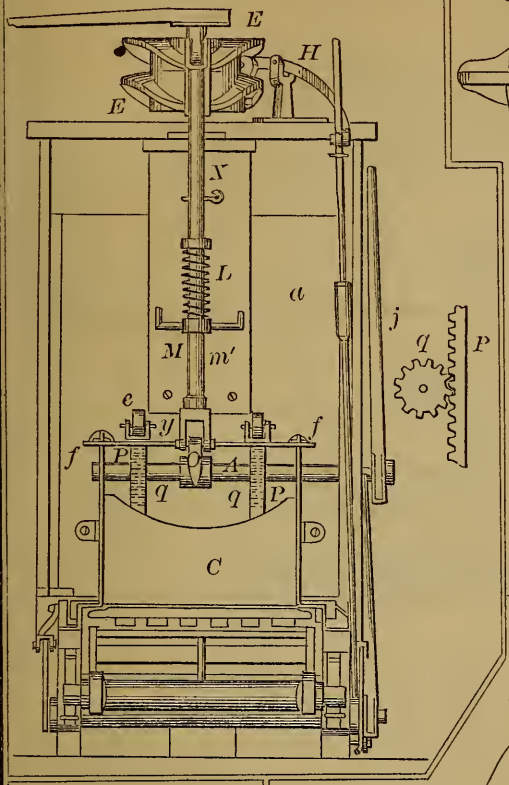
80861—Fox & Hubbard—*Sewing Machine.*



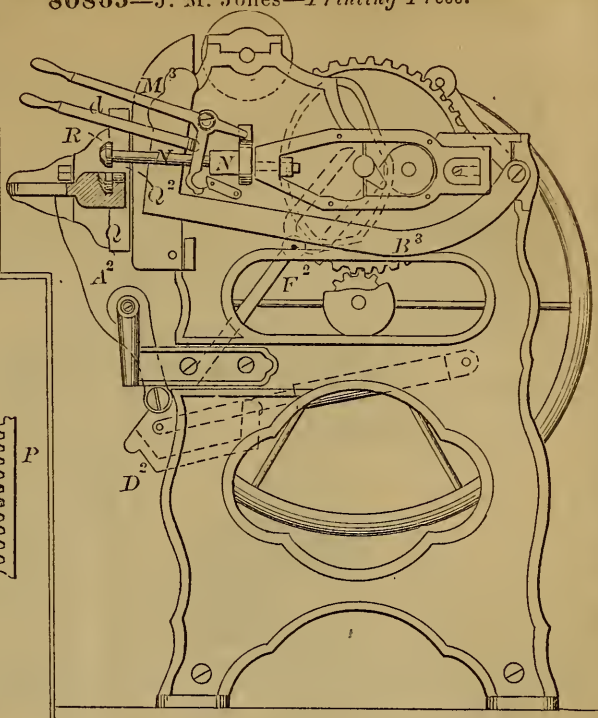
80859—J. G. Ferzer—*Plow.*

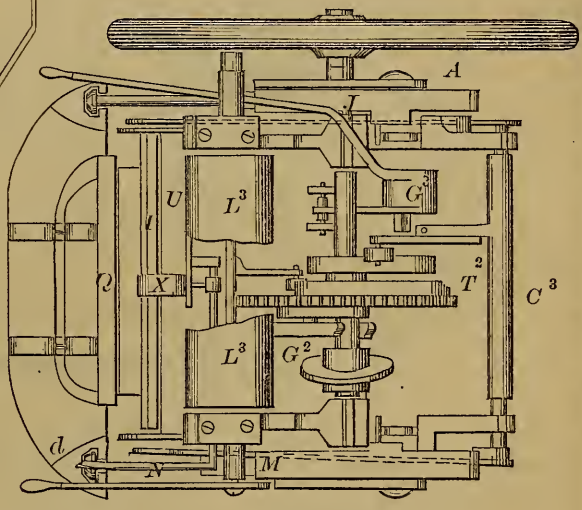


80862—F. E. Frey—*Brick Machine.*

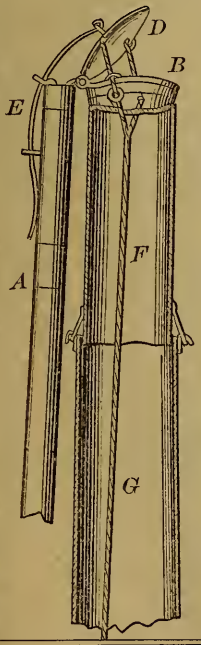


80865—J. M. Jones—*Printing Press.*

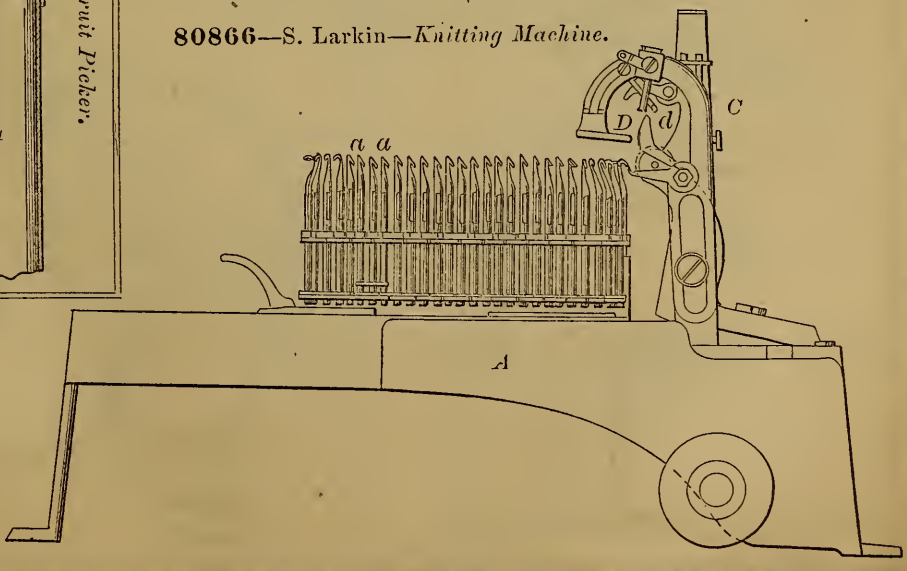




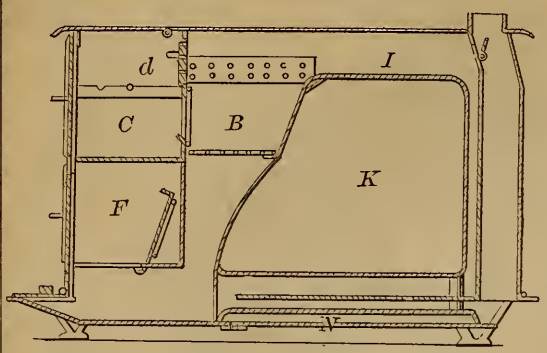
80864—N. G. Hughes—*Fruit Picker.*



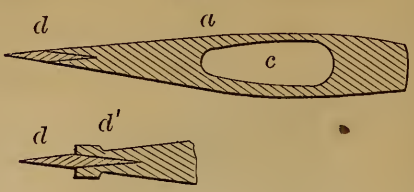
80866—S. Larkin—*Knitting Machine.*



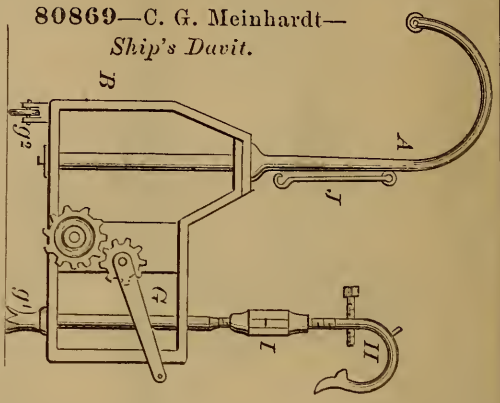
80867—J. Magee—*Cooking Stove.*



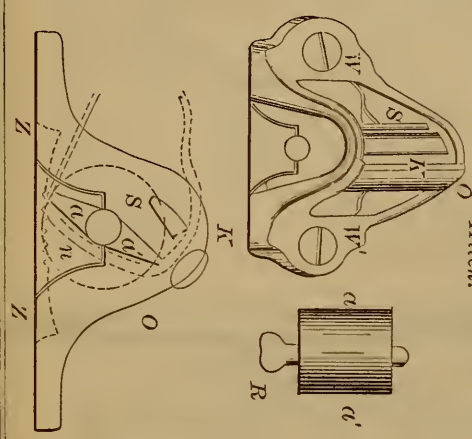
80868—E. H. Meigs—*Hand Axe.*

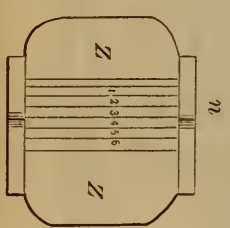


80869—C. G. Meinhardt—*Ship's Davit.*

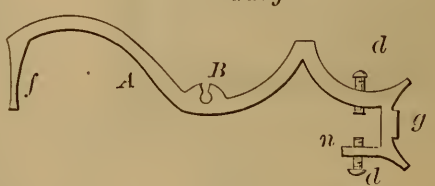


80870—Middleton & Haller—*Horse Hitch.*

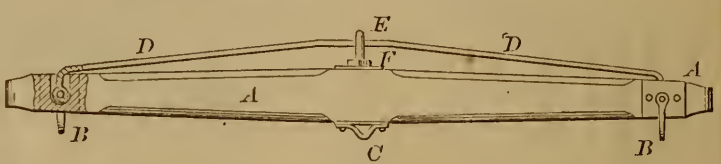




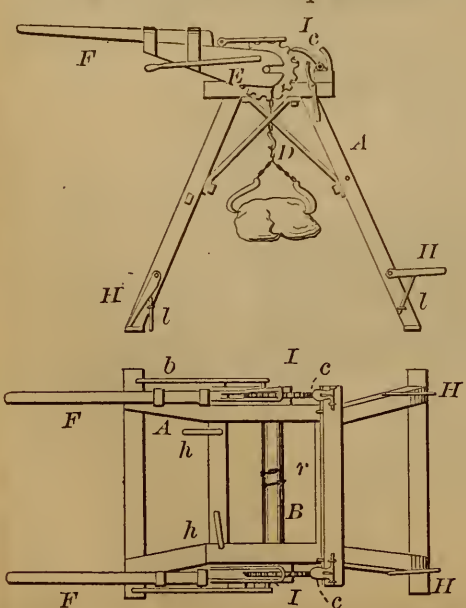
80871—Noyes & Baker—*Saw Set and Gauge.*



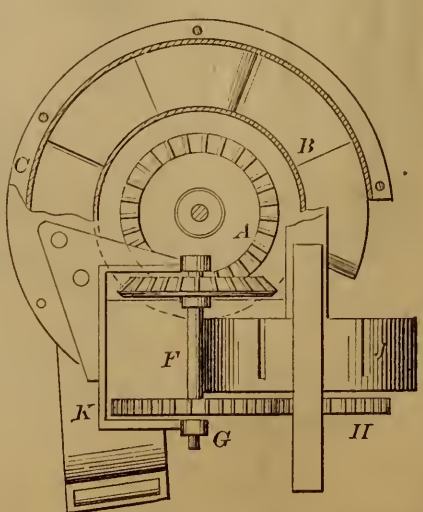
80872—Palmer & Case—*Doubletree.*



80873—I. Pardee—*Stump Machine.*

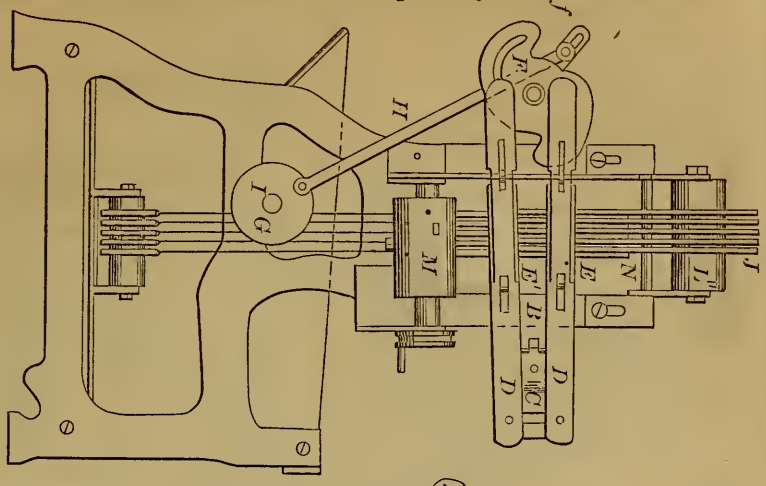


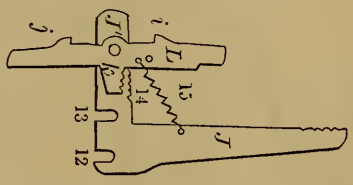
80874—O. M. Pike—*Water Wheel.*



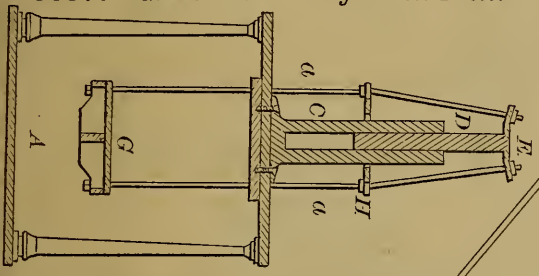
80875—E. A. & G. Platt—*Well Tube.*

80876—Plummer & Schofield—*For Operating Harness in Looms.*

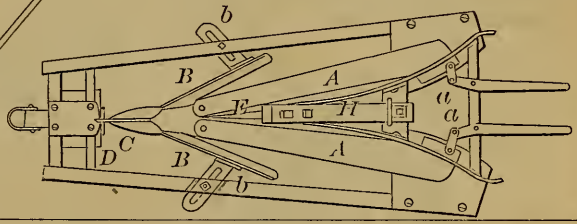


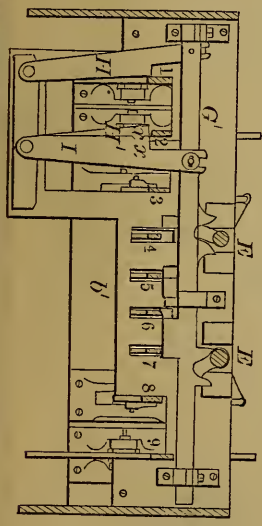


80877—G. W. Rawson—*Hydraulic Press.*

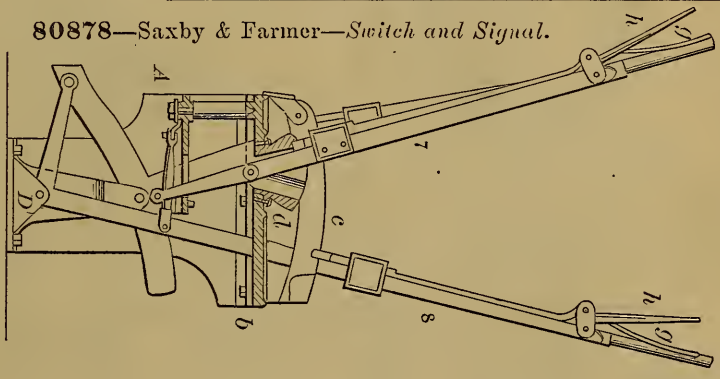


80880—Smith & Buckley—*For Cutting Ditches.*

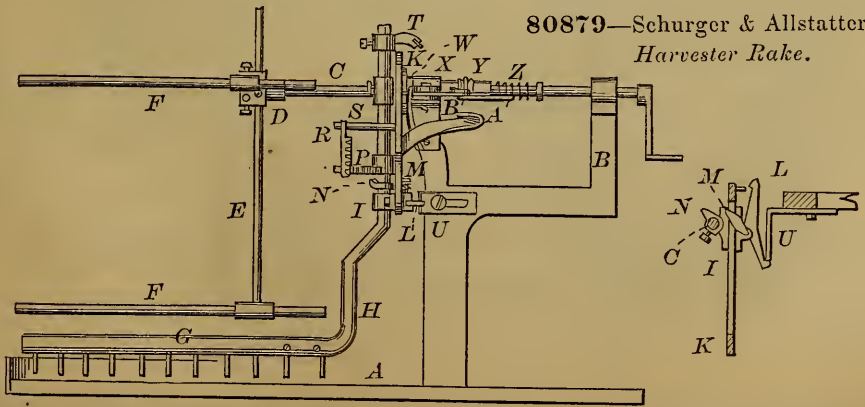




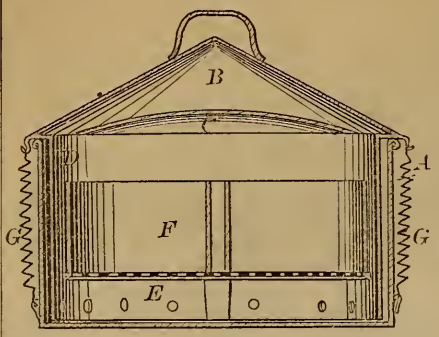
80878—Saxby & Farmer—*Switch and Signal.*



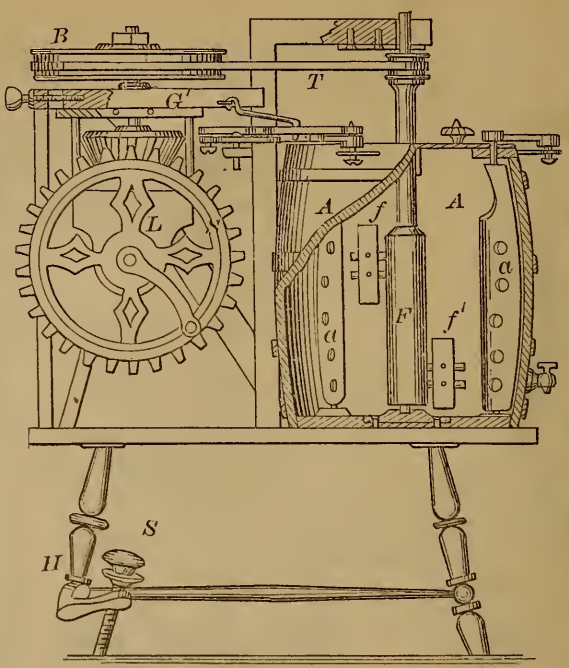
80879—Schurger & Allstatter—*Harvester Rake.*



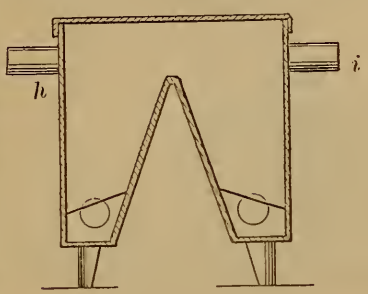
80881—Smith & Hall—*Cooking Utensil.*



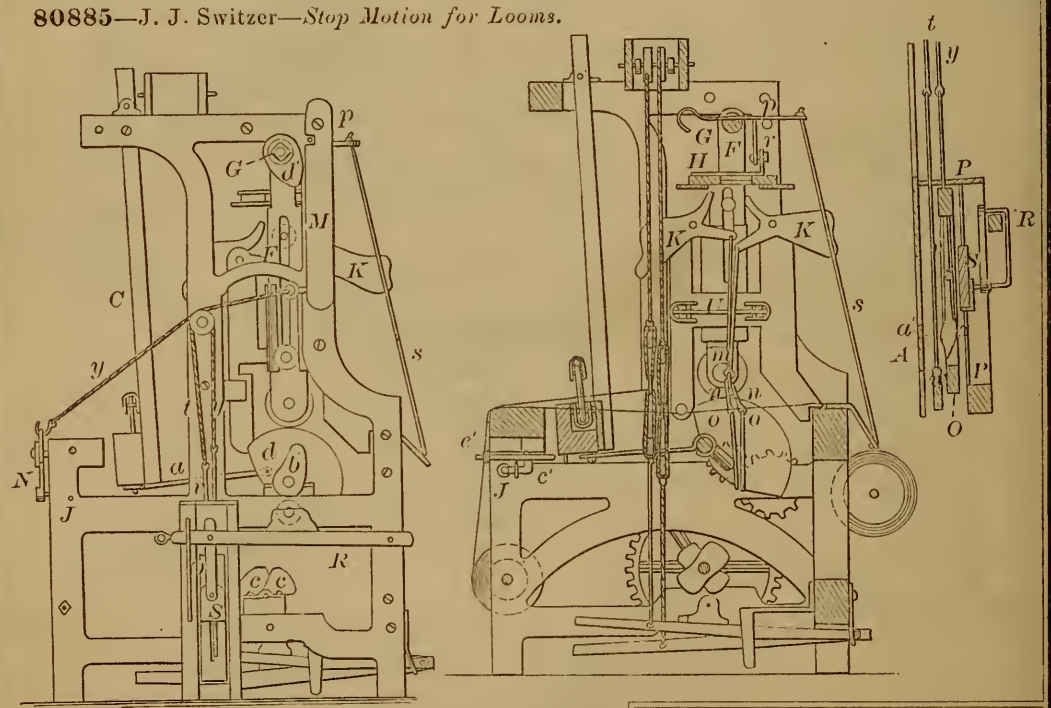
80882—Stadler & Streng—*Churn.*

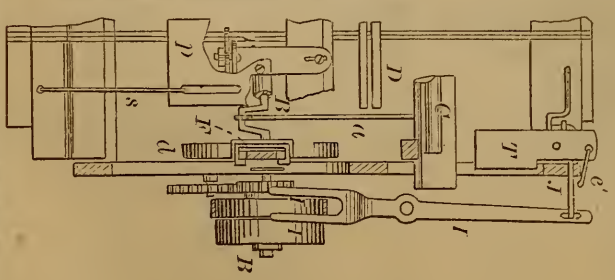


80883—W. Steffe—*Radiator.*

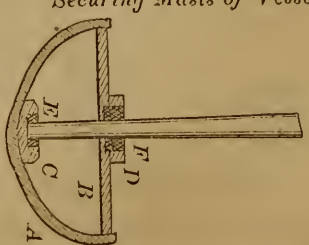


80885—J. J. Switzer—*Stop Motion for Looms.*

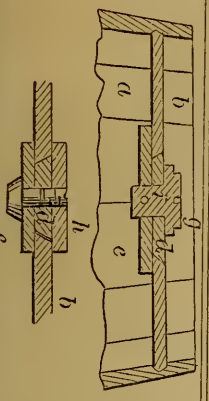


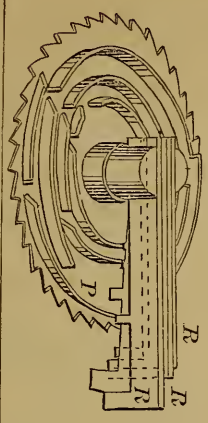


80884—Stevens & Snedecor—*Securing Masts of Vessels.*

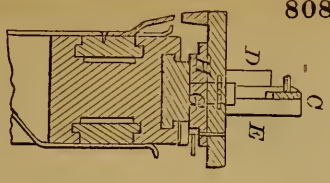


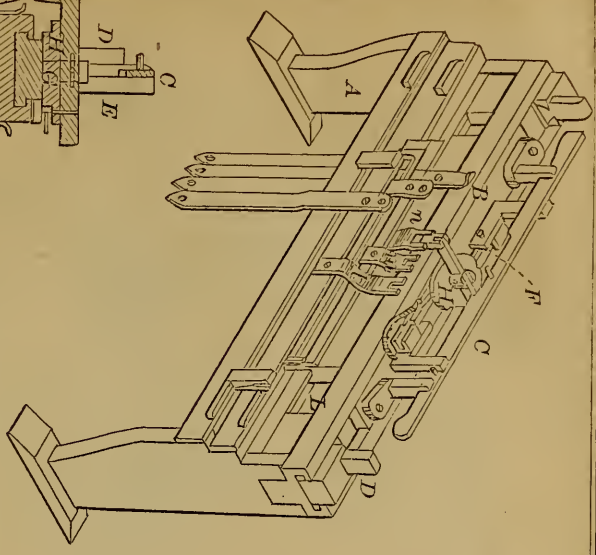
80886—
M. L. Thompson—
Barrel Head.



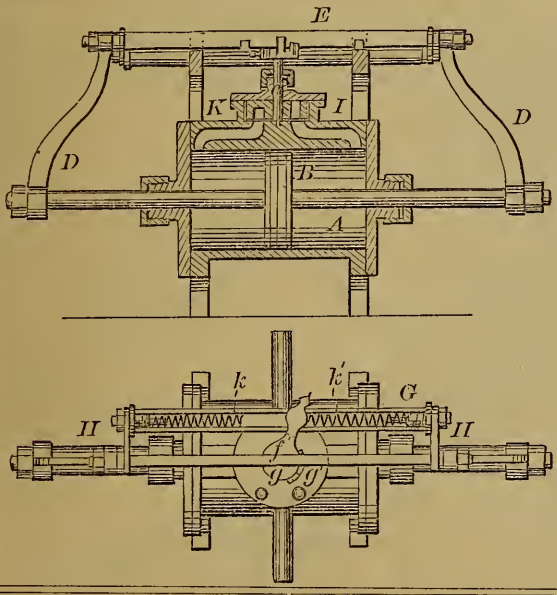


80887—J. Waldie—*Knitting Machine.*

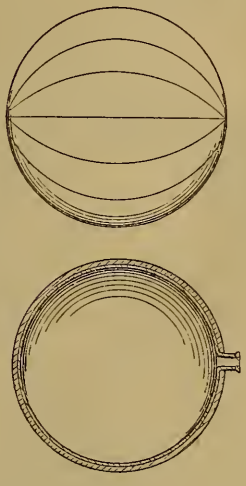




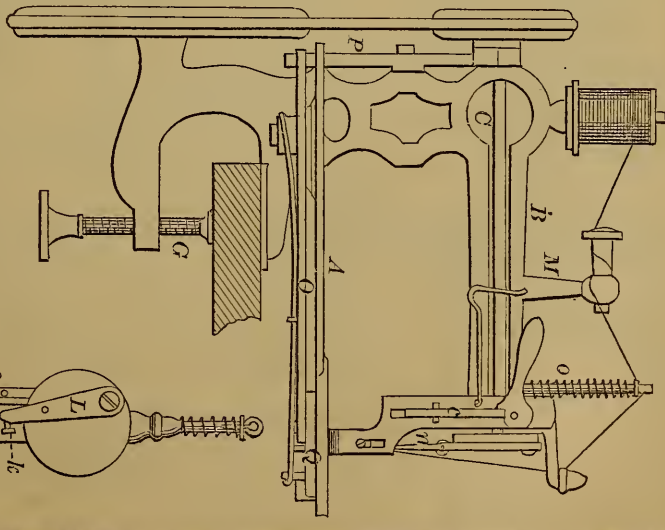
80888—J. D. Weaver—*Spirit Meter.*



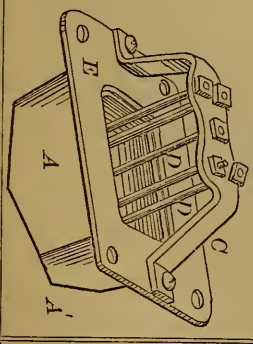
80891—G. D. Abbott—*Globe.*

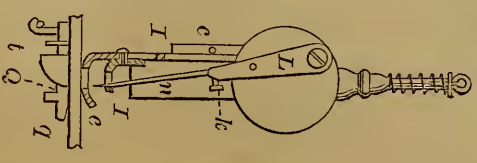


80889—W. C. Willmarth—*Sewing Machine.*

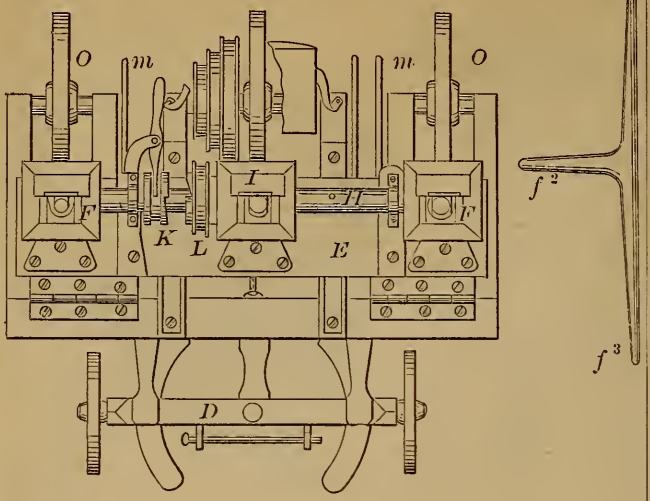


80890—P. N. Woliston—
Brick Machine.

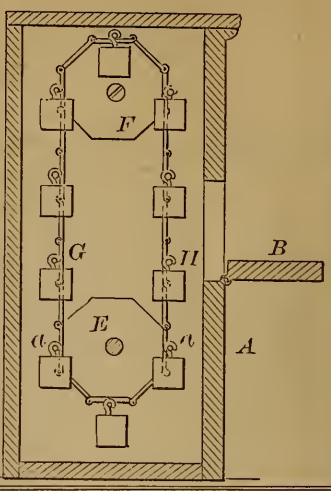


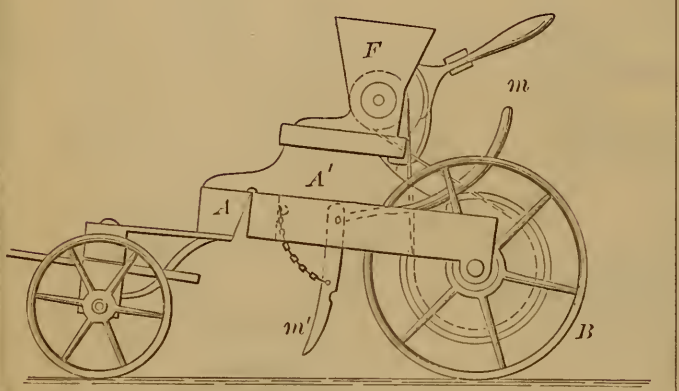


80892—H. C. Ackerman—*Corn Planter.*

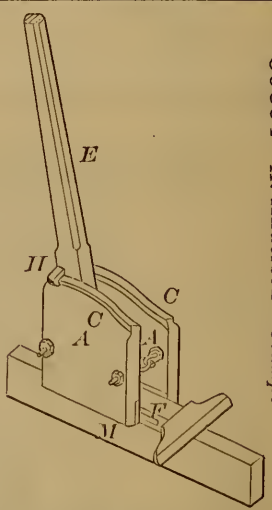


80893—E. Ale—*Secretary.*

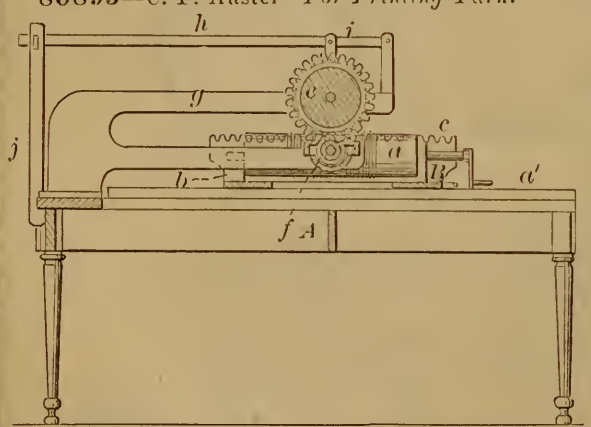




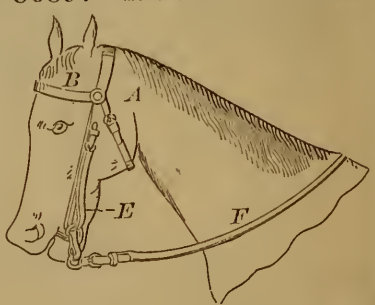
80894—A. Anderson—*Clamp.*



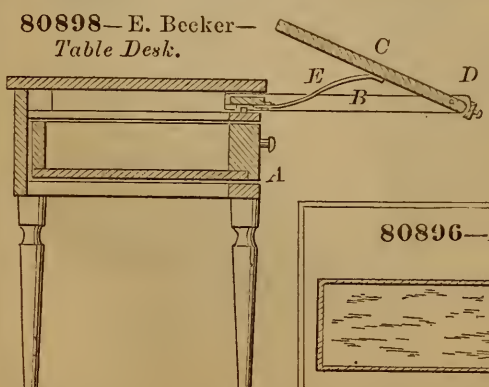
80895—C. F. Austel—*For Printing Yarn.*



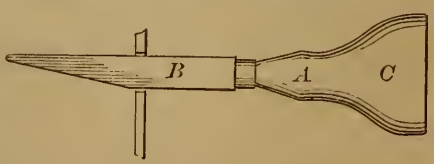
80897—G. W. Barnes—*Bridle.*



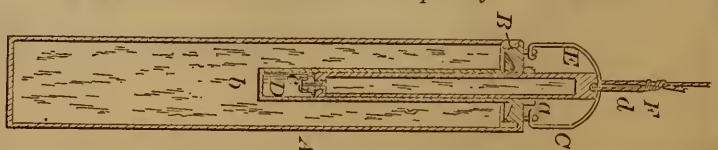
80898—E. Becker—*Table Desk.*



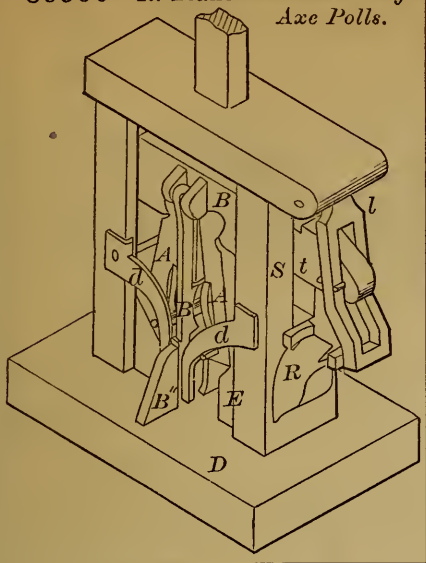
80899—H. Blake—*Belt Knife.*



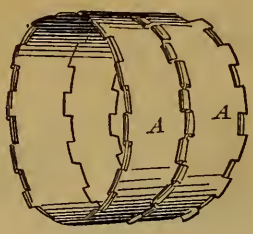
80896—A. T. Ballantine—*Torpedo for Oil Wells.*



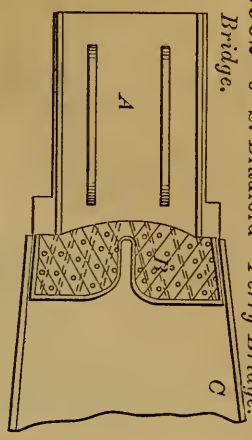
80900—R. Blake—*For Punching Axe Polls.*

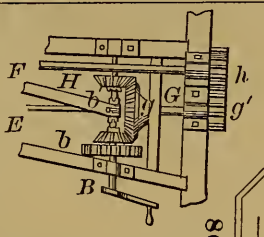


80901—A. O. Bourn—*Elbow Support for Flexible Hose.*

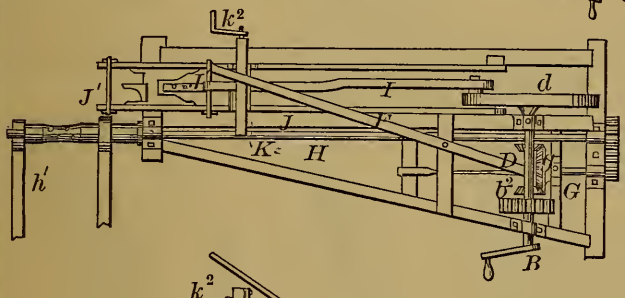


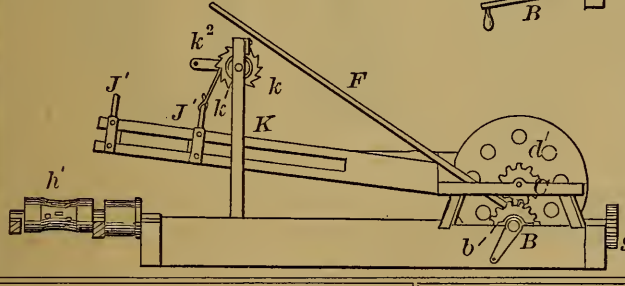
80902—J. S. Bradford—*Ferry Bridge.*



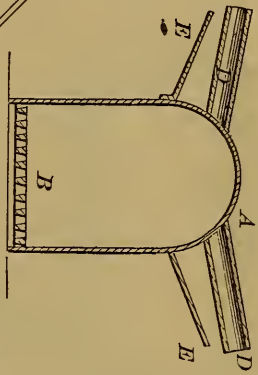


80903—J. Briggs—*Sawing Machine.*

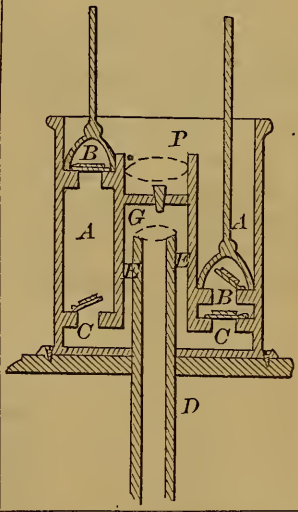




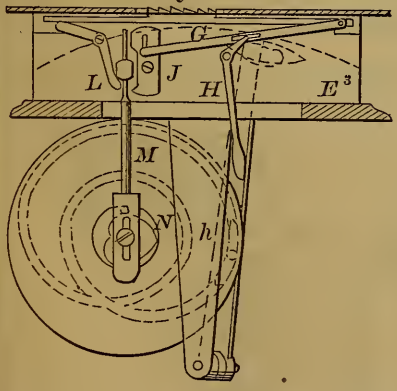
80906—N. W. Broome—*For Curing Tobacco.*



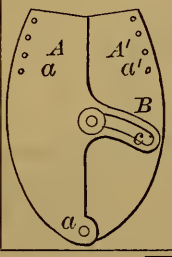
80905—J. Brokenshire—*Pump.*



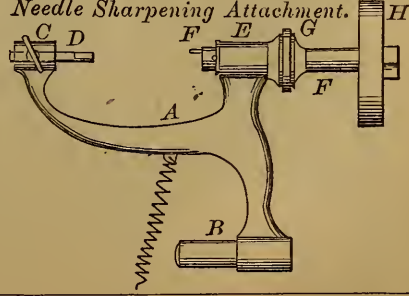
80907—A. R. & C. S. Byrkit—*Sewing Machine.*



80904—J. Brobst—*Metallic Heel Pattern.*

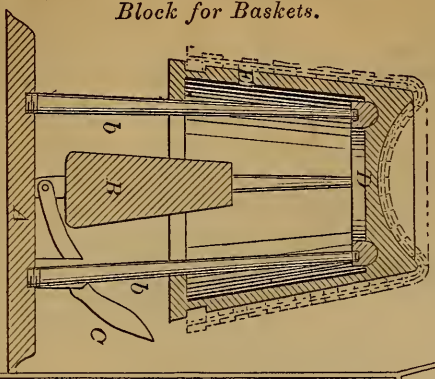


80908—J. Callan—*Sewing Machine Needle Sharpening Attachment.*

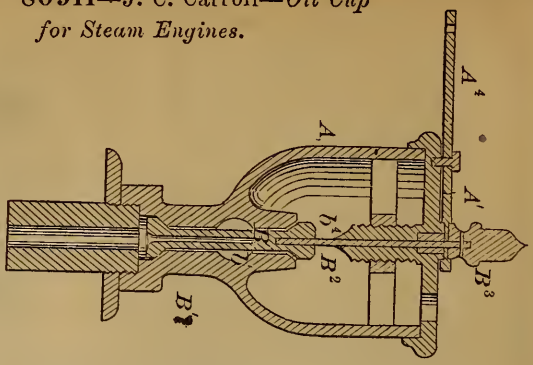


80909—W. Carleton—*Lamp Burner.*

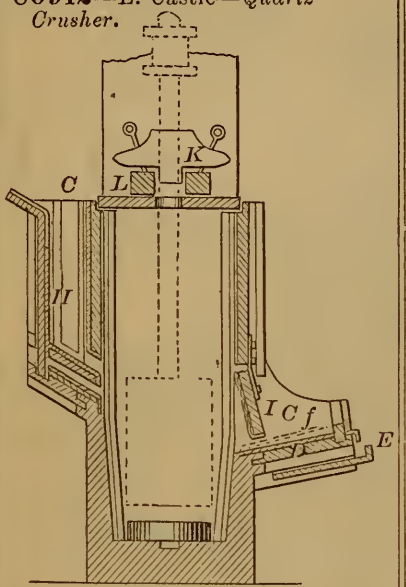
80910—W. H. Carpenter—*Form Block for Baskets.*



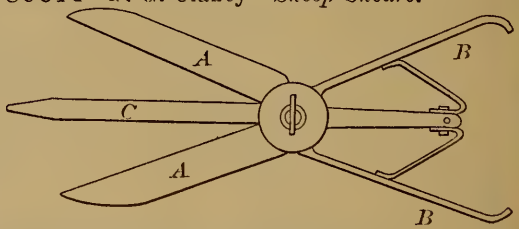
80911—J. C. Carroll—*Oil Cup for Steam Engines.*



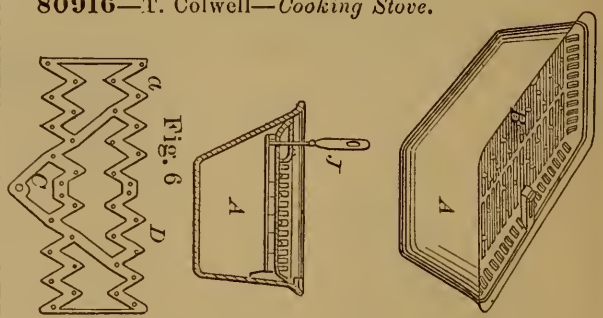
80912—E. Castle—*Quartz Crusher.*



80914—P. G. Claney—*Sheep Shears.*

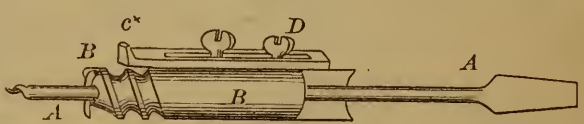


80916—T. Colwell—*Cooking Stove.*

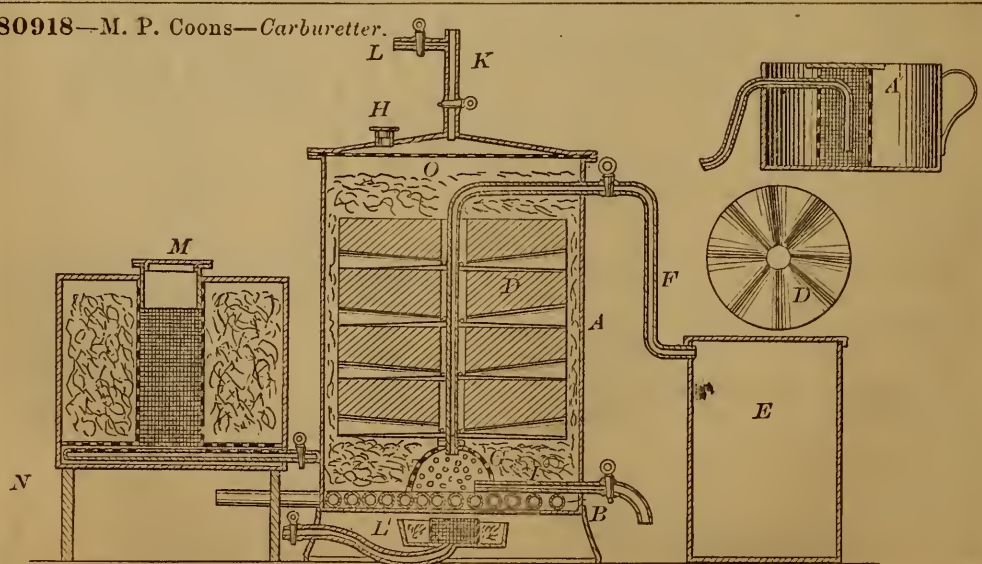


80913—G. W. Chipman—*Carpet Lining.*

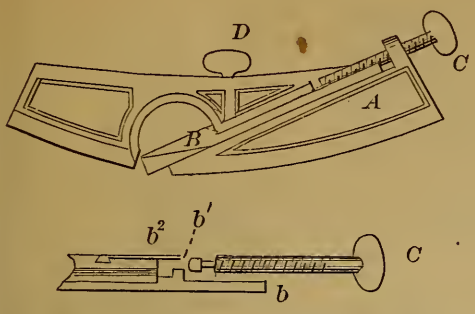
80915—L. Colt—*Auger.*



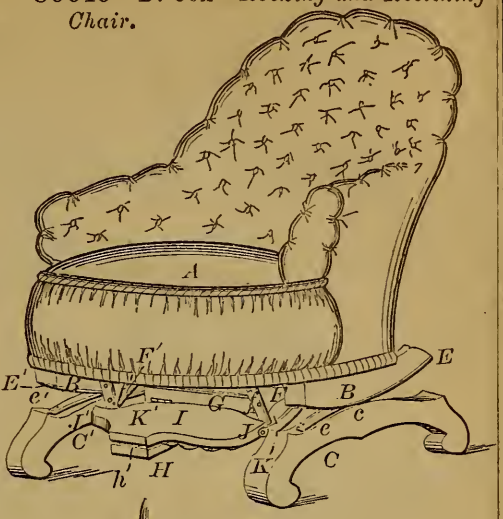
80918—M. P. Coons—*Carburetter.*



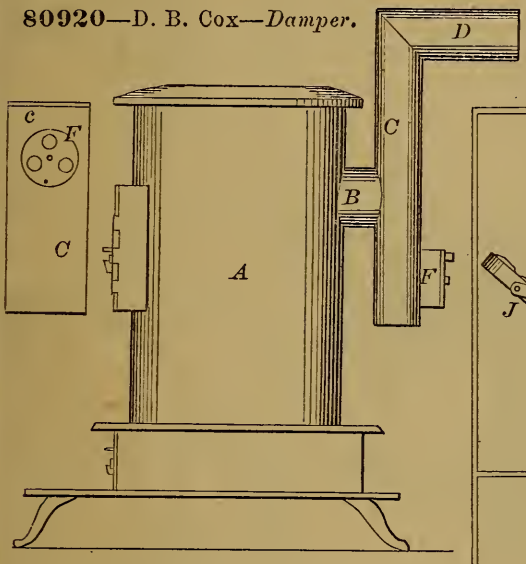
80917—C. O. Cook—*Coopers' Croze.*

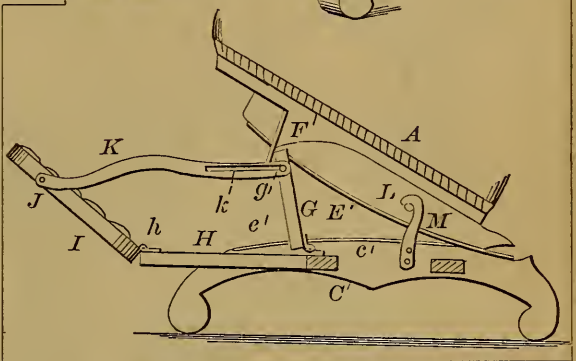


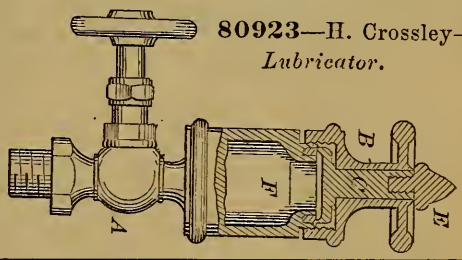
80919—D. Cox—*Rocking and Reclining Chair.*



80920—D. B. Cox—*Damper.*

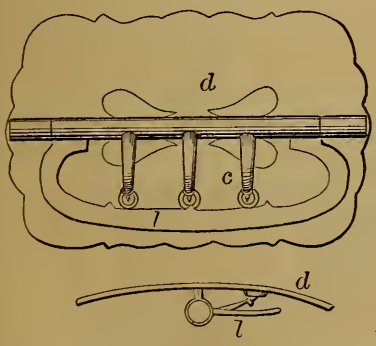




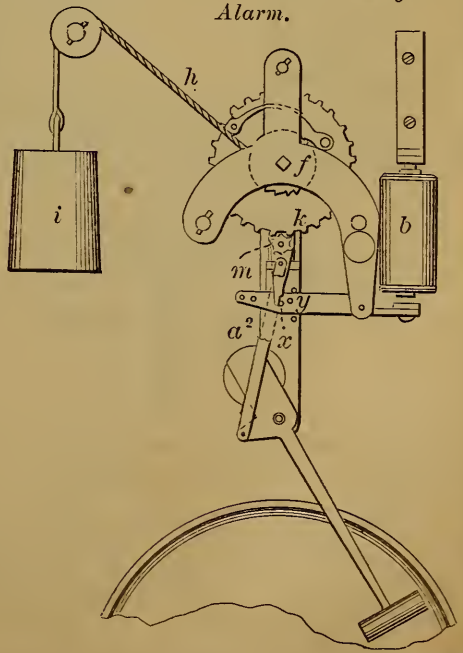


80923—H. Crossley—*Lubricator.*

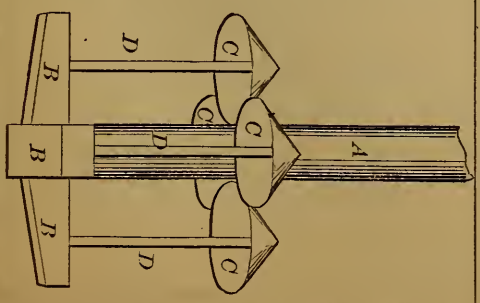
80924—W. Cummings—*Belt Buckle.*



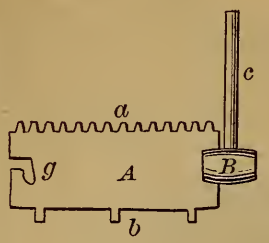
80922—M. G. Crane—*Electro-Magnetic Alarm.*



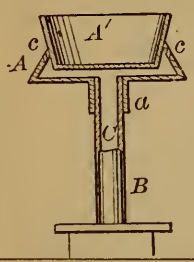
80921—H. A. Crance—*Churn Dasher.*



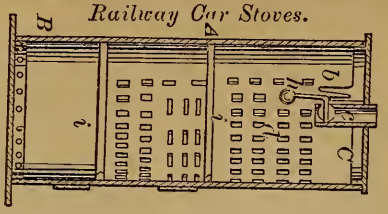
80925—S. G. Dare—*Carpet Stretcher.*



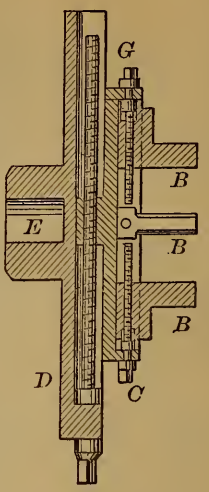
80926—W. E. Darrah—*Vapor Burner.*



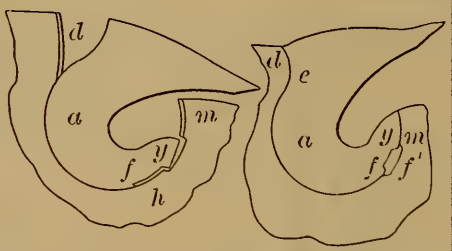
80927—S. L. Denney—*Casing for Railway Car Stoves.*



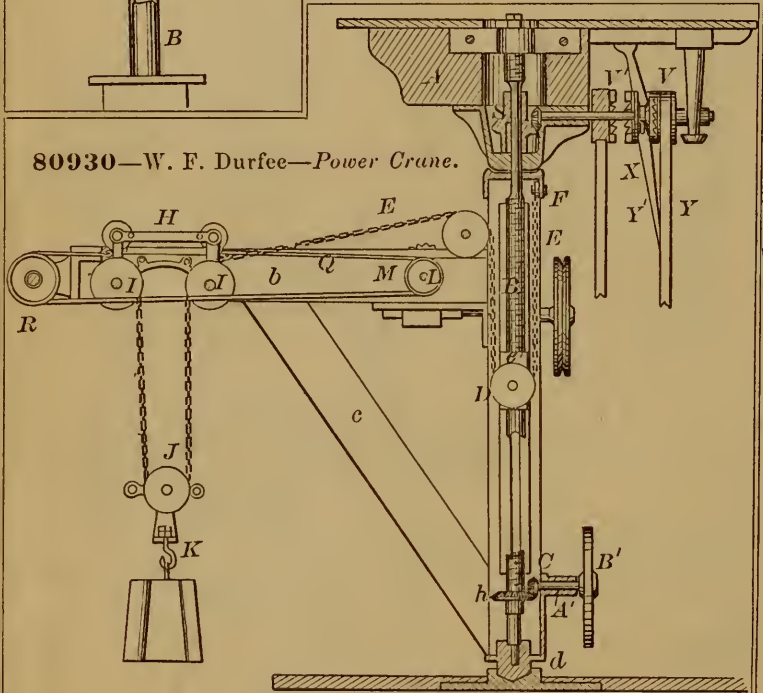
80928—J. S. Detrick—*Lathe Chuck.*



80929—C. Disston—*Saw.*

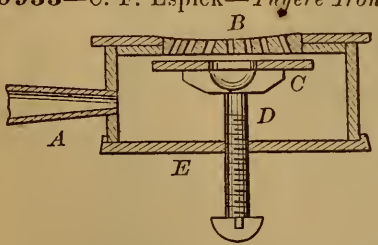


80930—W. F. Durfee—*Power Crane.*

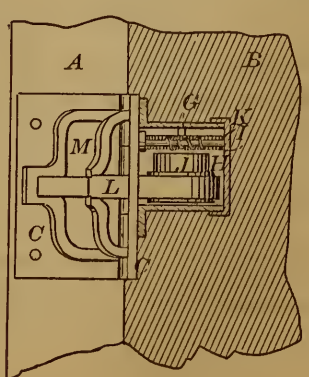


80932—P. S. Dusouchet—*Street Car Switch.*

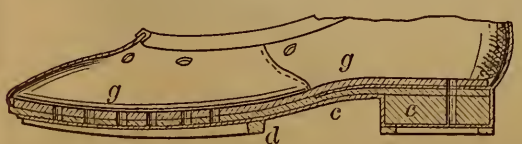
80933—C. F. Espick—*Tuyere Iron.*



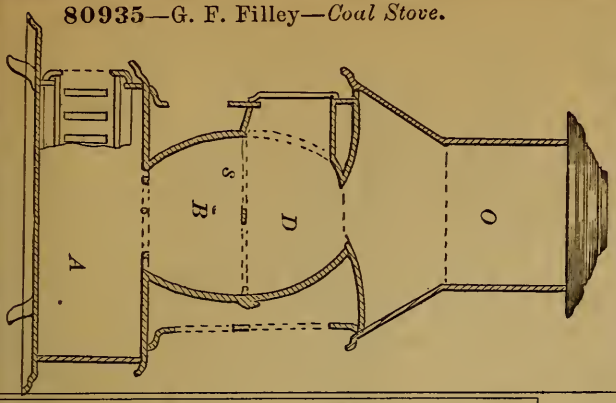
80931—W. Duryea—*Door Spring.*



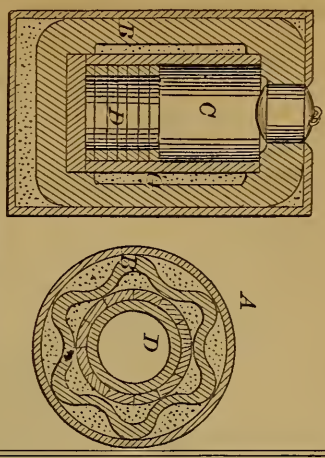
80934—L. D. J. Ferry—*Bathing Shoes.*



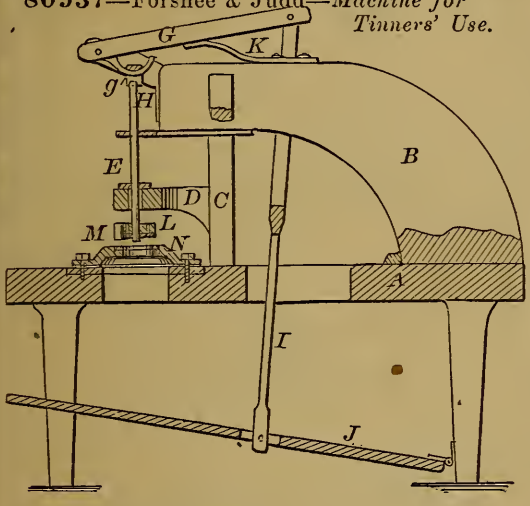
80935—G. F. Filley—*Coal Stove.*

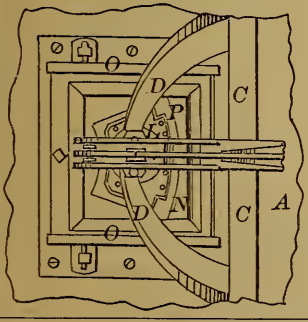


80936—D. Fitzgerald—*Safe.*

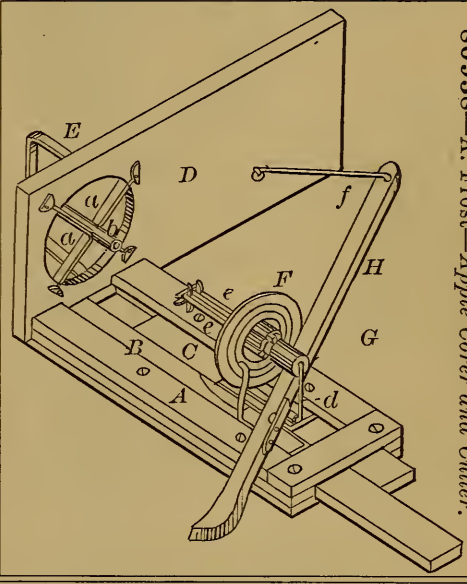


80937—Forshee & Judd—*Machine for Tinners' Use.*

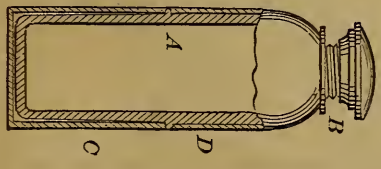




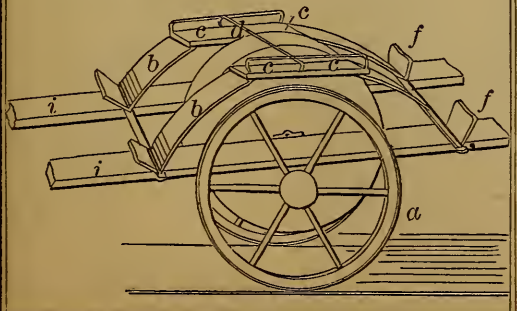
80938—A. Frost—*Apple Corer and Cutter.*



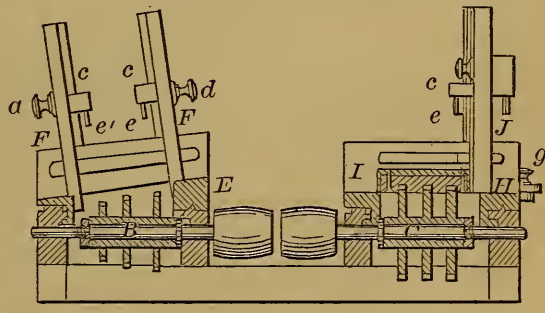
80939—W. T. Frye—*Flask.*

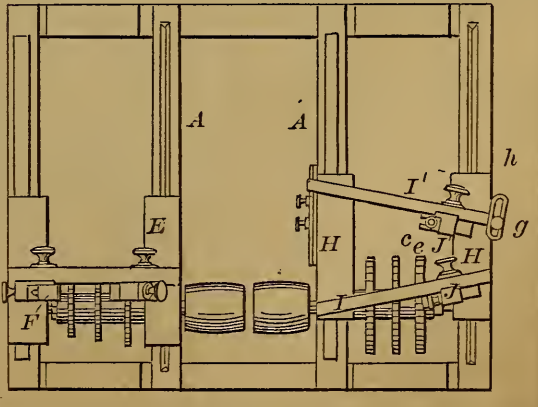


80941—H. A. Gilbertson—*Hose Tender.*

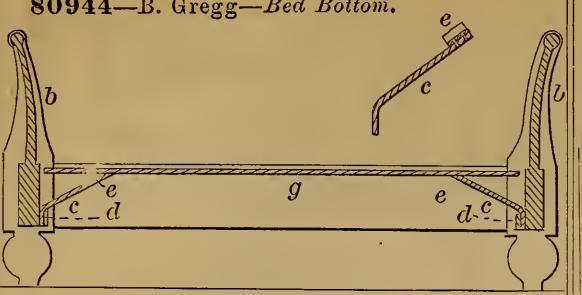


80942—R. J. Gould—*Dovetailing Machine.*

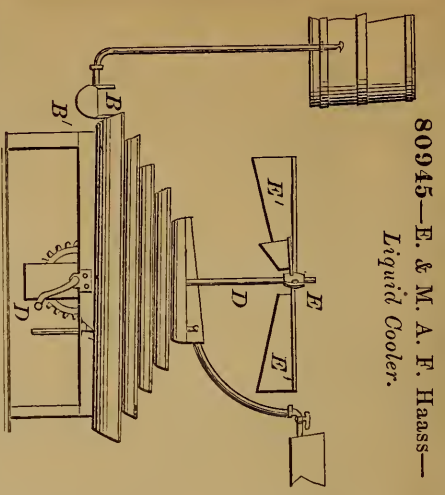




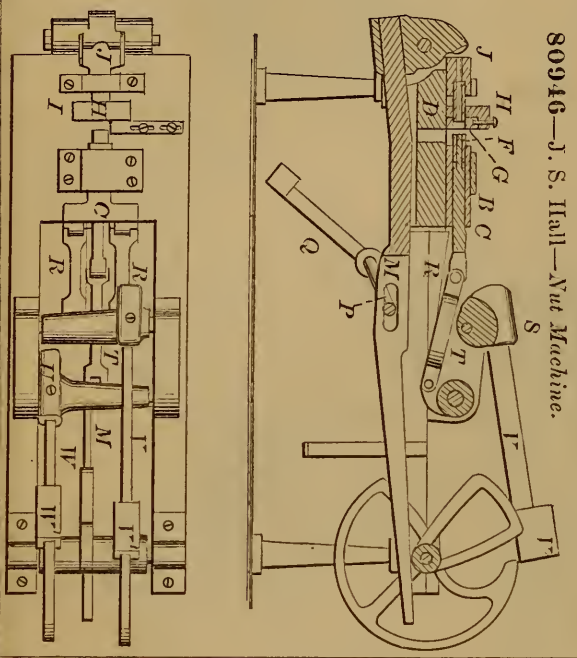
80944—B. Gregg—*Bed Bottom.*



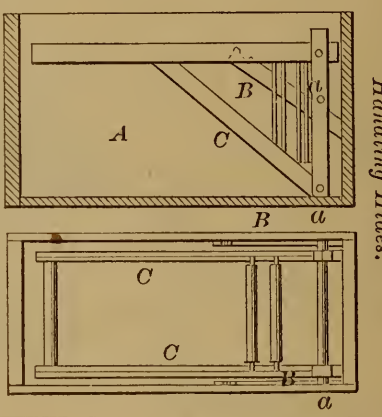
80945—E. & M. A. F. Haass—*Liquid Cooler.*



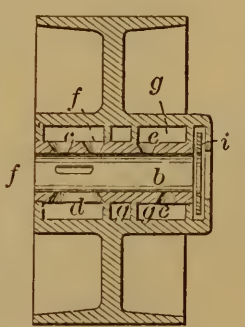
80946—J. S. Hall—*Nut Machine.*



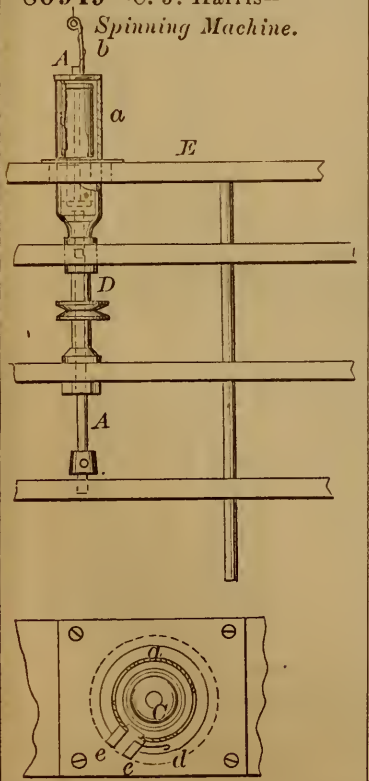
80947—J. Hammond—*For Handling Hides.*



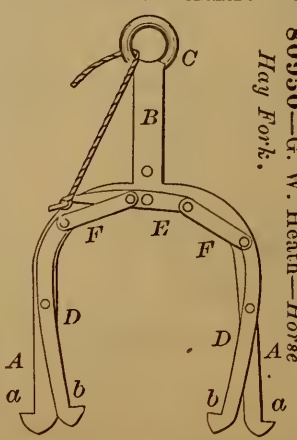
80948—D. Harrington—*Loose Pulley.*



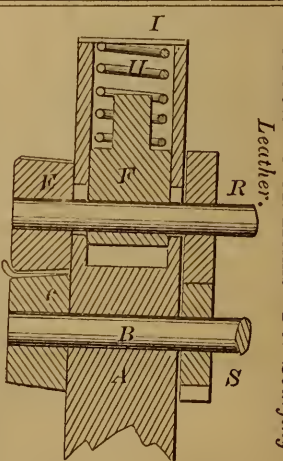
80949—C. J. Harris—*Spinning Machine.*



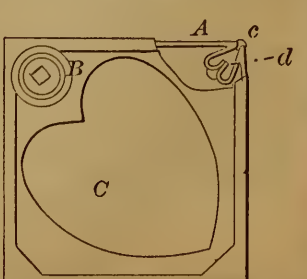
80950—G. W. Heath—*Horse Hay Fork.*



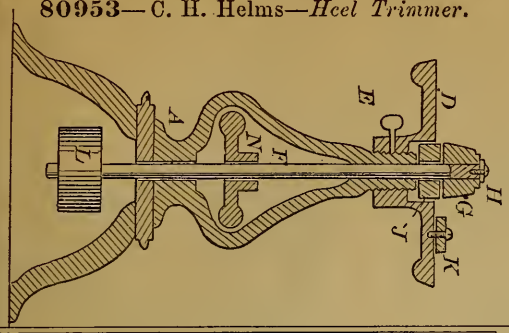
80952—C. H. Helms—*For Searing Leather.*



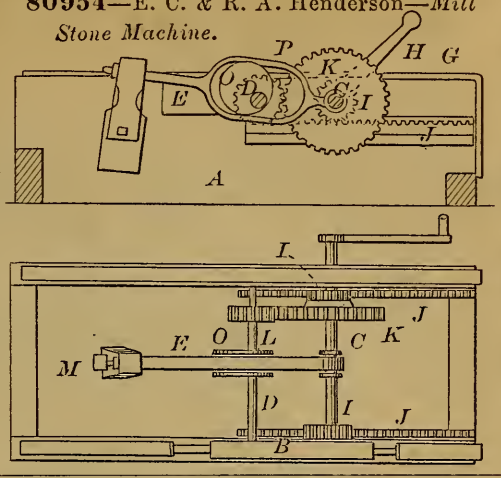
80951—G. E. Hegerman—*Tin Can.*



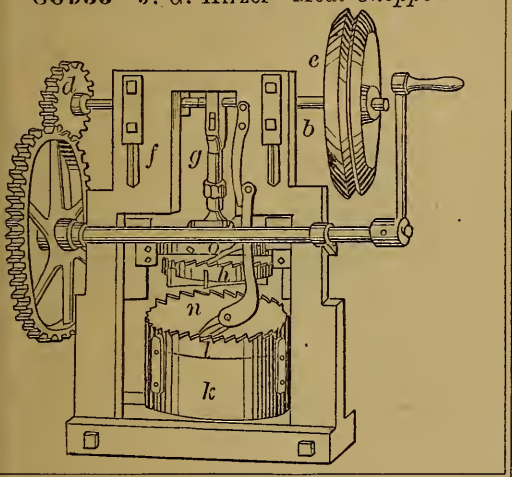
80953—C. H. Helms—*Heel Trimmer.*



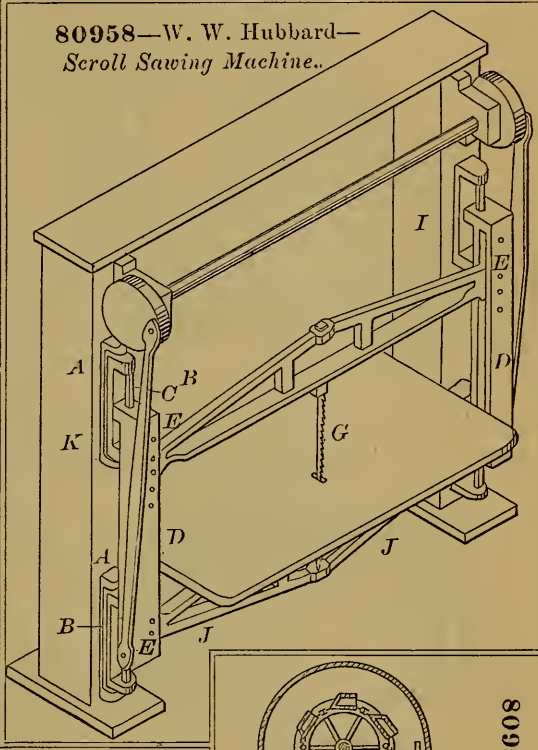
80954—E. C. & R. A. Henderson—*Mill Stone Machine.*



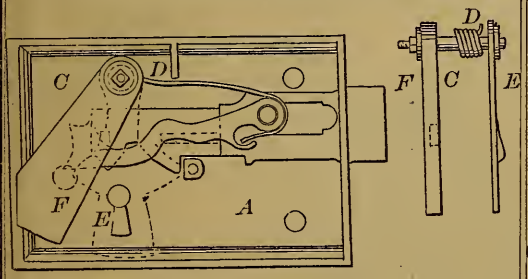
80955—J. G. Hirzel—*Meat Chopper.*



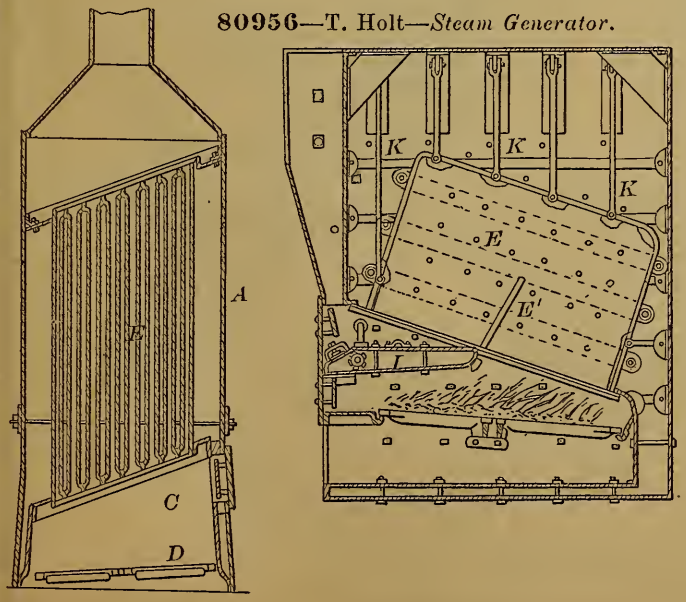
80958—W. W. Hubbard—*Scroll Sawing Machine.*



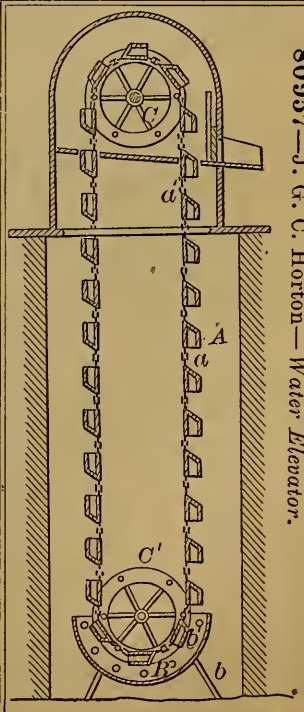
80959—A. Huffnagle—*Keyhole Guard.*



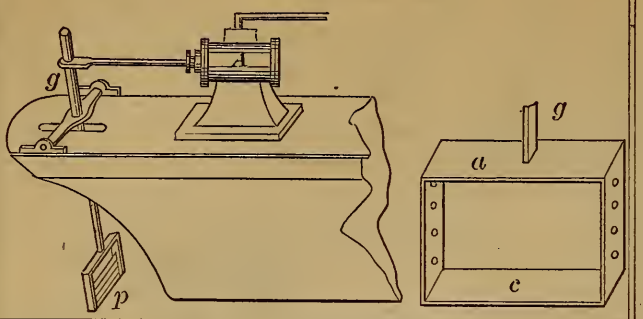
80956—T. Holt—*Steam Generator.*



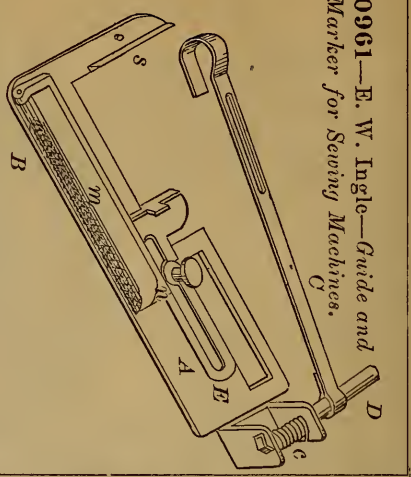
80957—J. G. C. Horton—*Water Elevator.*



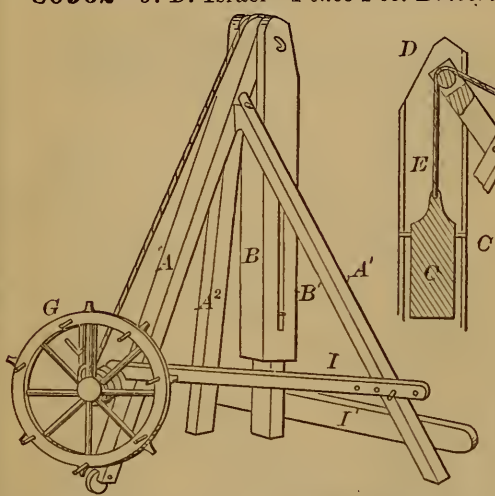
80960—R. Hunter—*Propeller.*



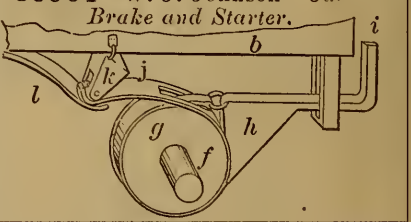
80961—E. W. Ingle—*Guide and Marker for Sewing Machines.*



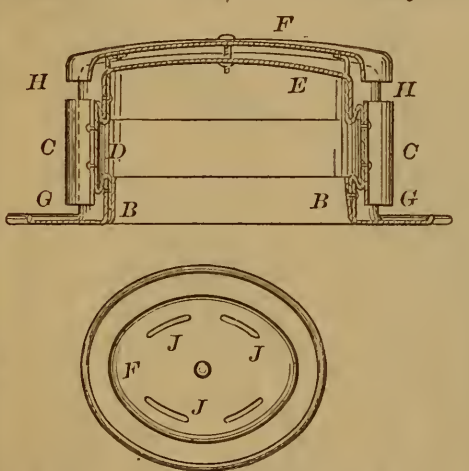
80962—J. D. Israel—*Fence Post Driver.*



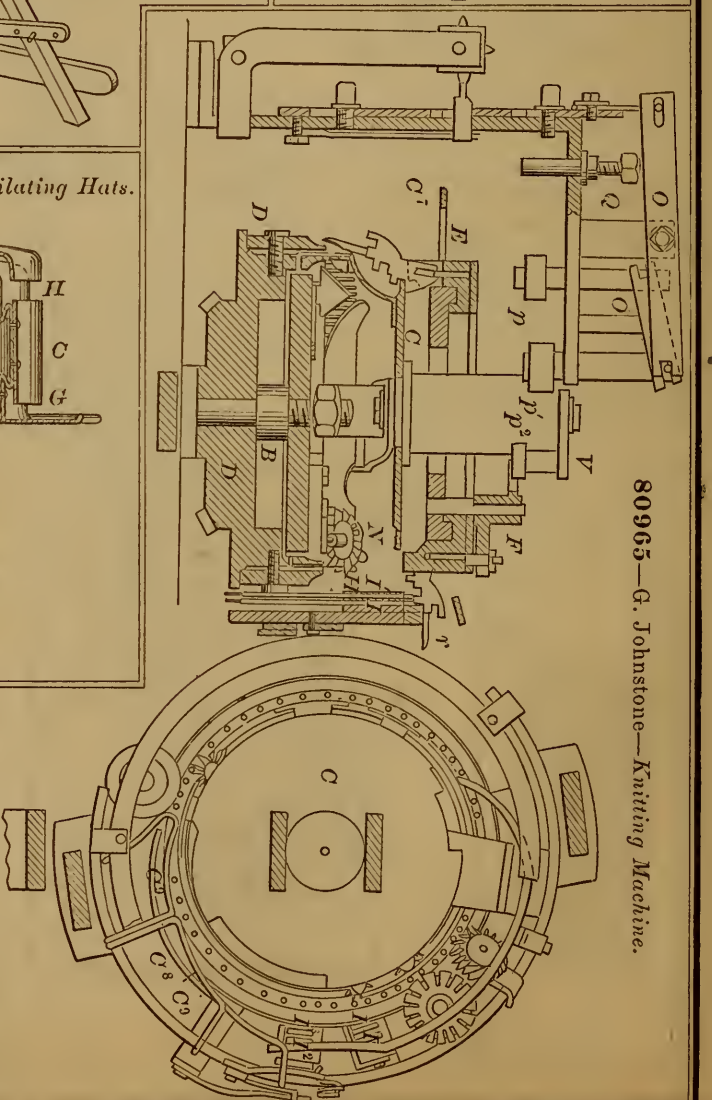
80964—W. J. Johnson—*Car Brake and Starter.*



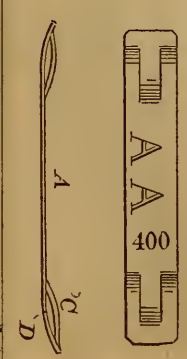
80963—T. R. Johnson—*Ventilating Hats.*



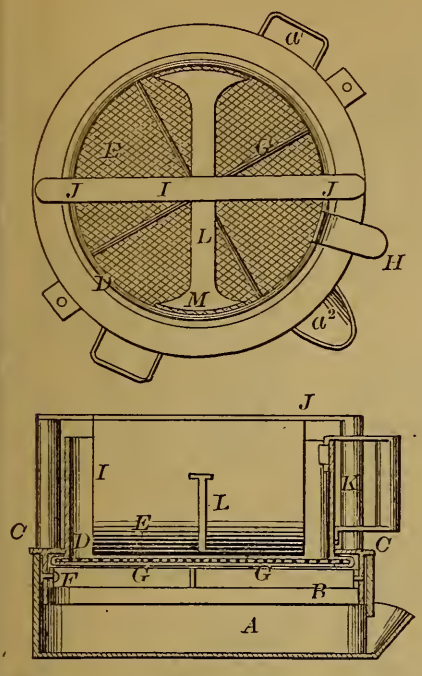
80965—G. Johnstone—*Knitting Machine.*

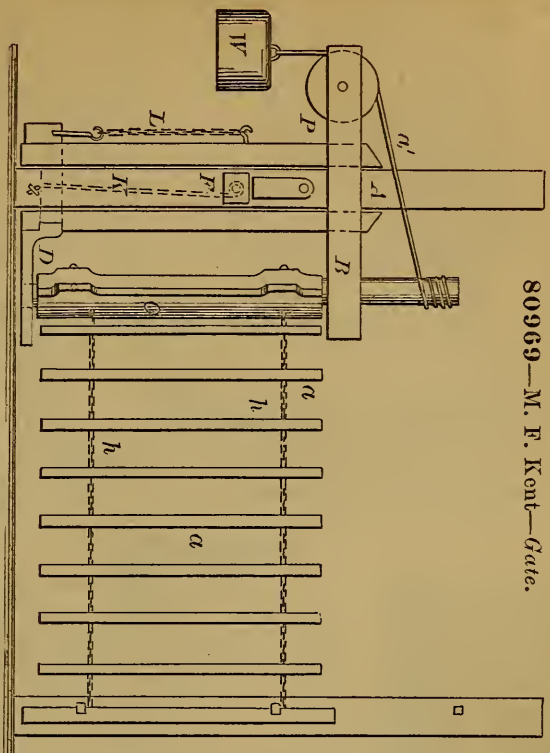


80967—N. C. Jones—*Bale Label.*



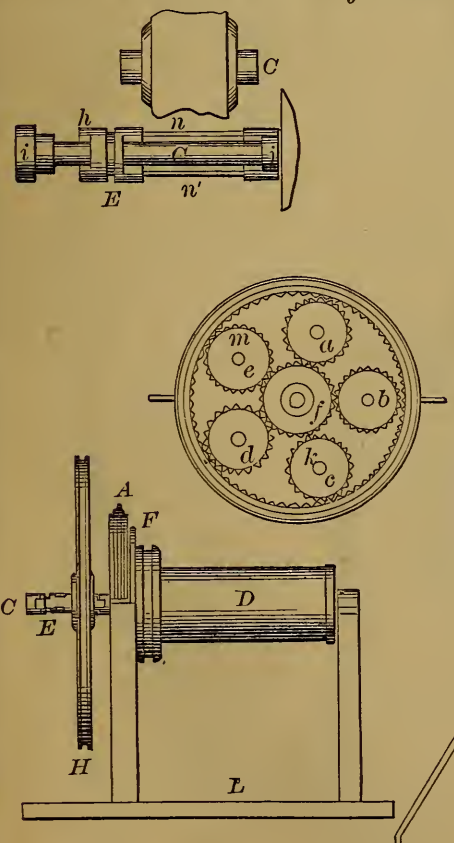
80966—Mrs. J. D. Jones—*Sieve.*



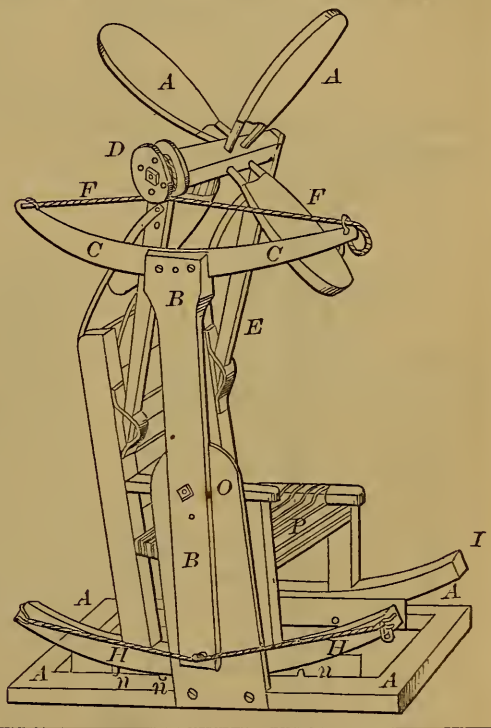


80969—M. F. Kent—*Gate.*

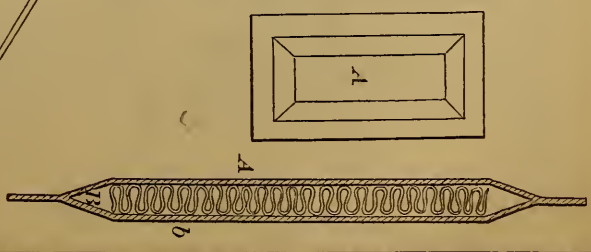
80968—W. O. Jones—*Hoisting Gear.*



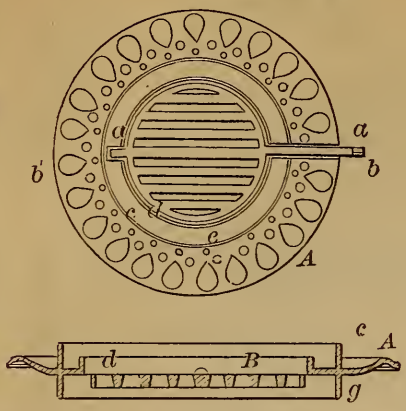
80970—T. Kerr—*Fanning and Rocking Chair.*



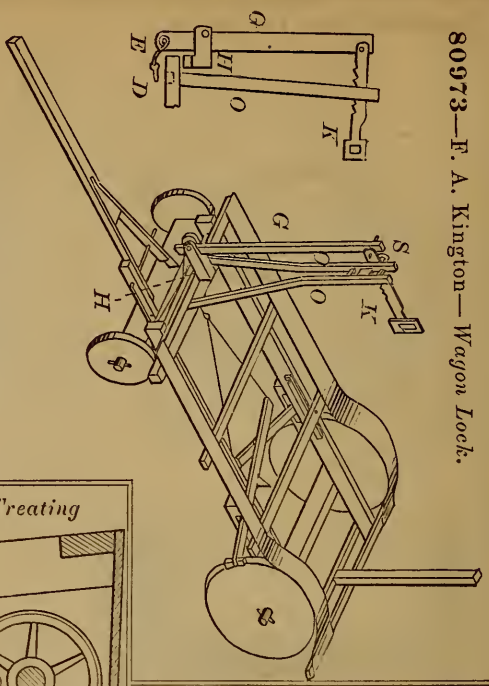
80972—L. W. Kimball—*Door Panel.*



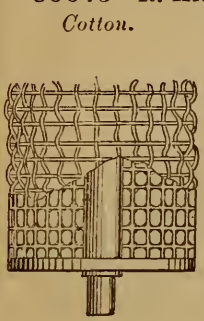
80971—J. H. Keyser—*Foot Rest Grate and Fire Brick Base.*

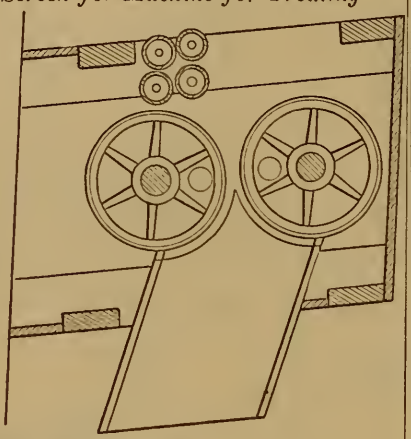


80973—F. A. Kington—*Wagon Lock.*

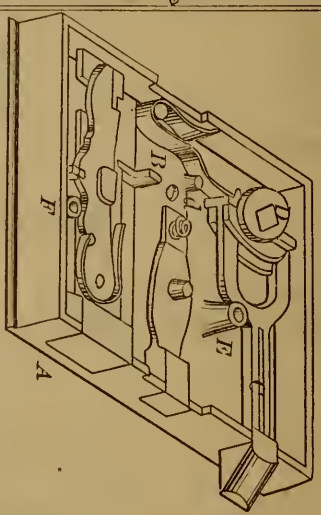


80975—R. Kitson—*Screen for Machine for Treating Cotton.*

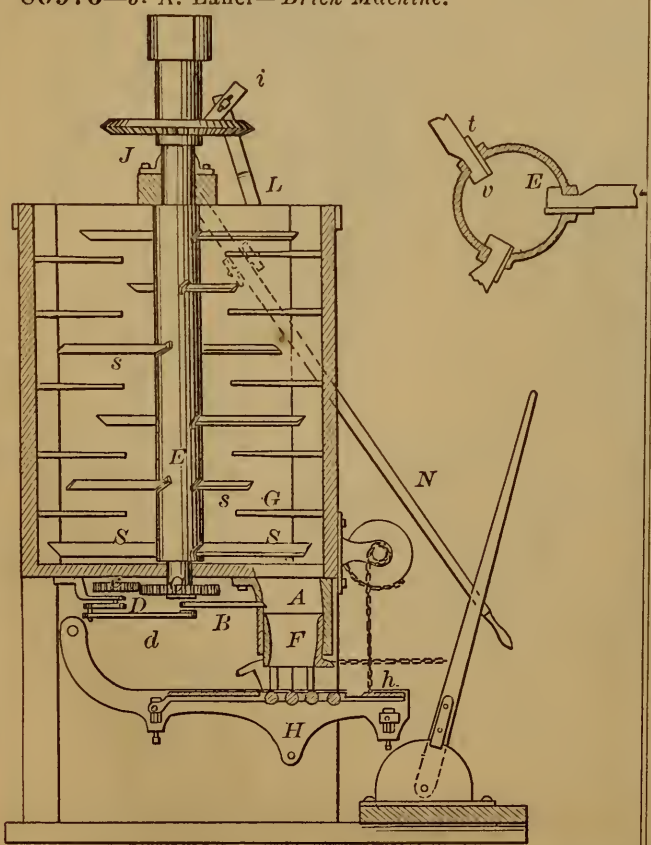




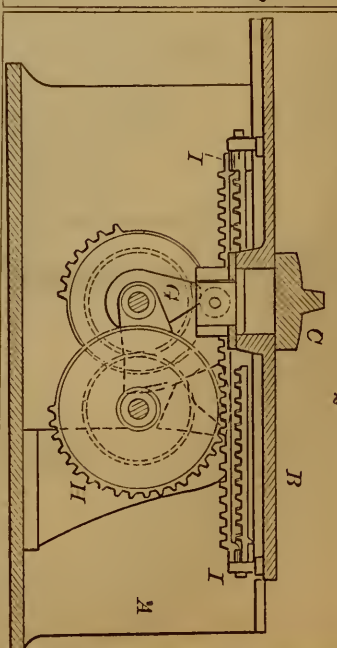
80974—J. Kinzer—*Reversible Latch.*



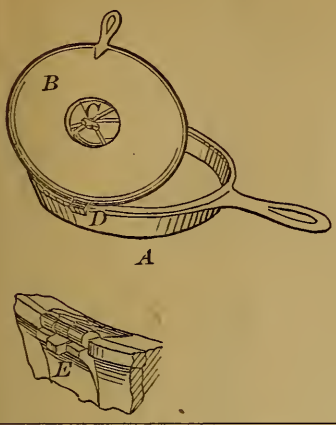
80976—J. A. Lafler—*Brick Machine.*



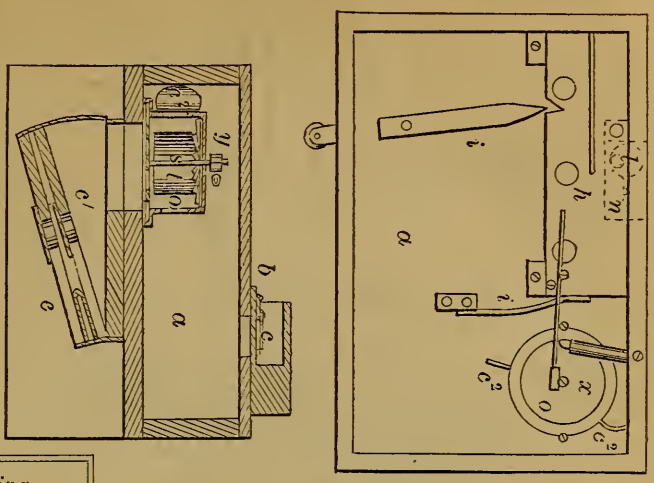
80977—W. O. Leslie—*Brick Press.*



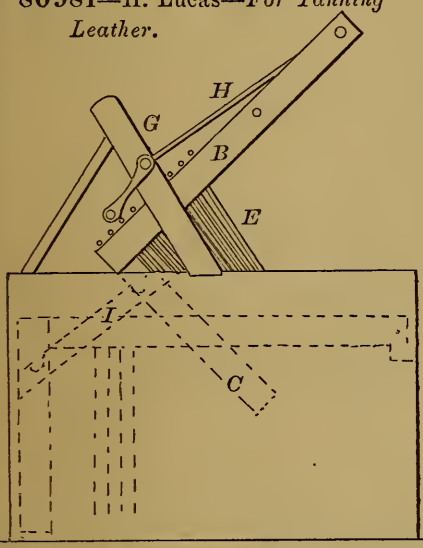
80978—N. Lewis—*Spider.*



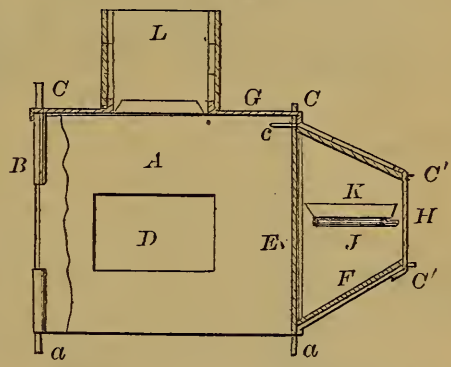
80979—L. F. Louis—*Tremolo.*



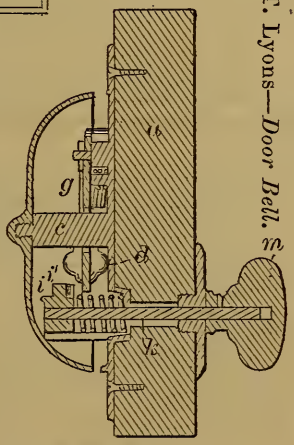
80981—H. Lucas—*For Tanning Leather.*



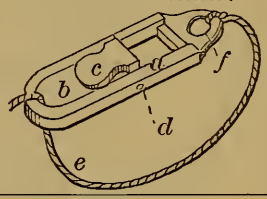
80987—D. C. McNeil—*Camp Stove and Oven.*



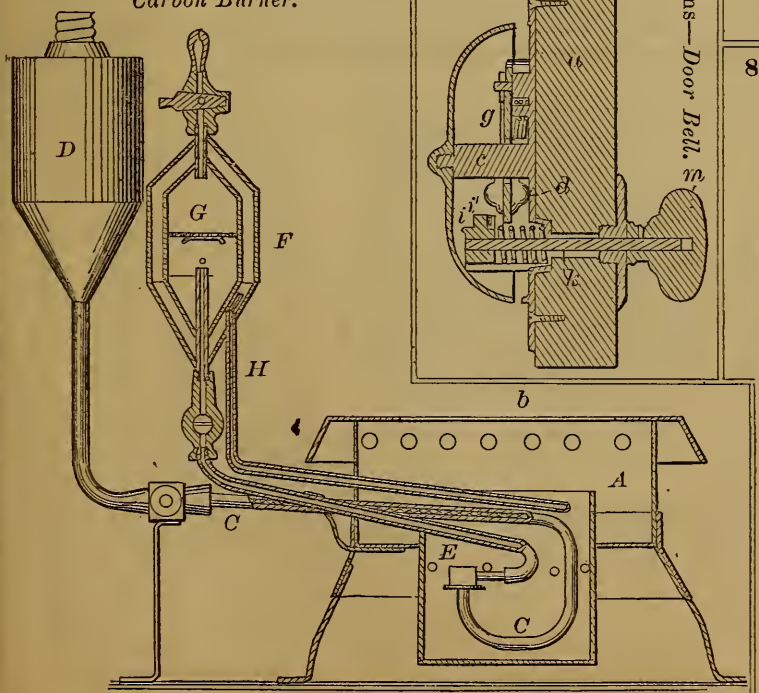
80983—T. Lyons—*Door Bell.*



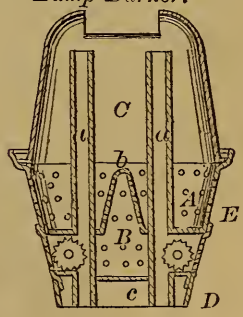
80986—E. P. McCeney—*File Fastener.*

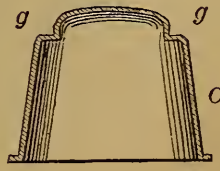


80980—D. H. Lowe—*Hydro-Carbon Burner.*

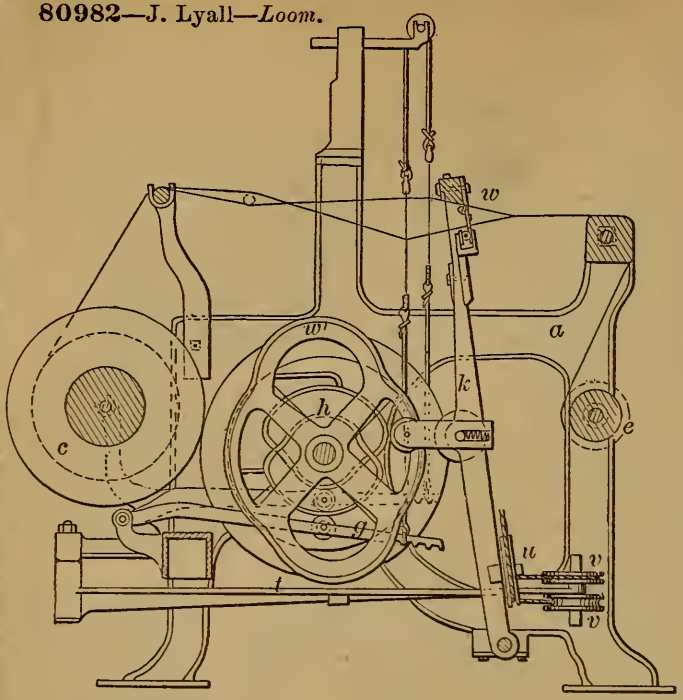


80984—L. J. Marcy—*Lamp Burner.*

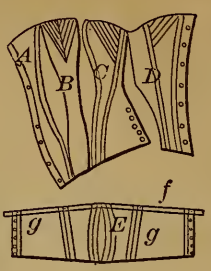




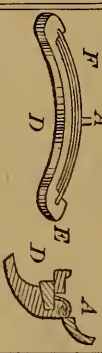
80982—J. Lyall—*Loom.*

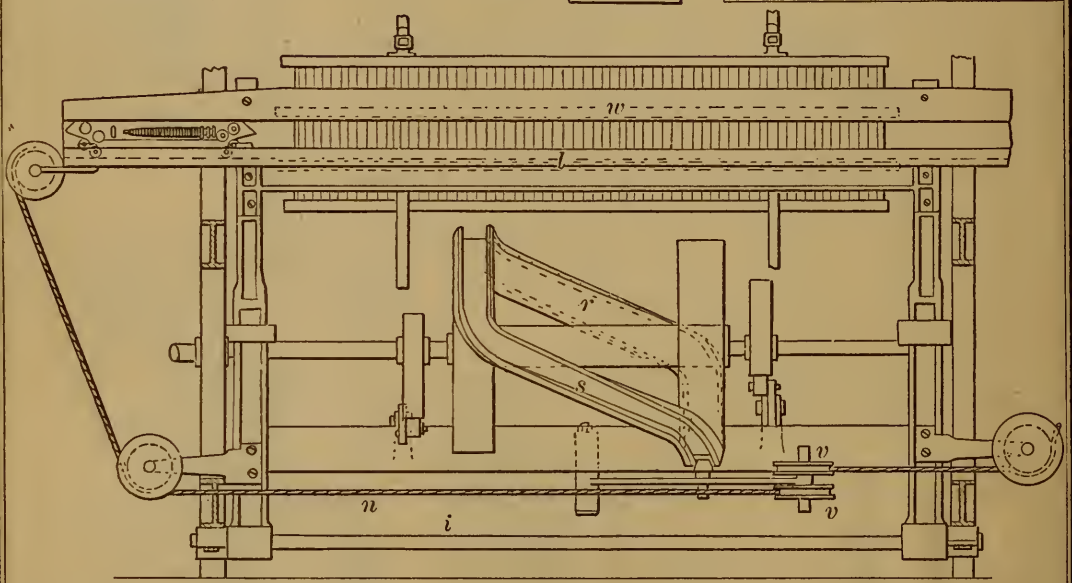


80988—J. McNeven—*Corset, Abdominal and Skirt Supporter.*

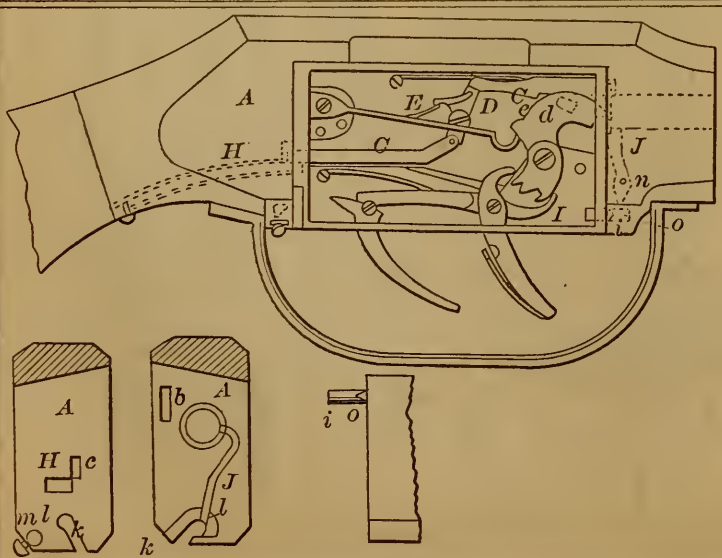


80989—J. H. Morse—*Spring and Duster for Watches.*

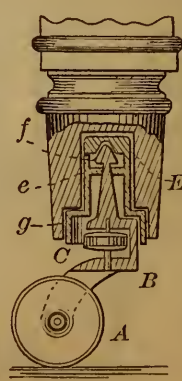




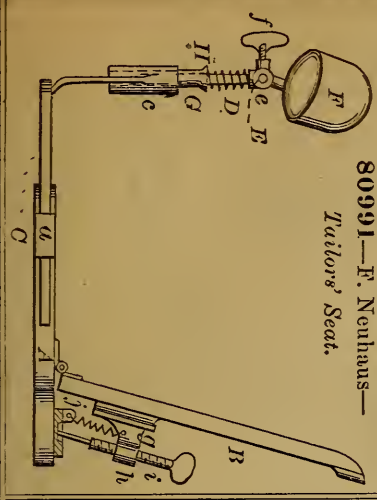
80985—J. E. McBeth—*Fire Arm.*



80990—H. Munroe—*Furniture Caster.*

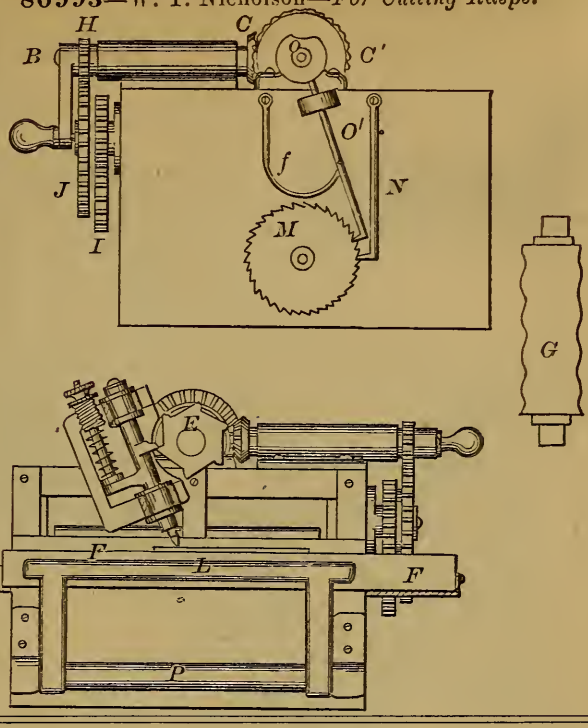


80991—F. Neuhaus—*Tailors' Seat.*

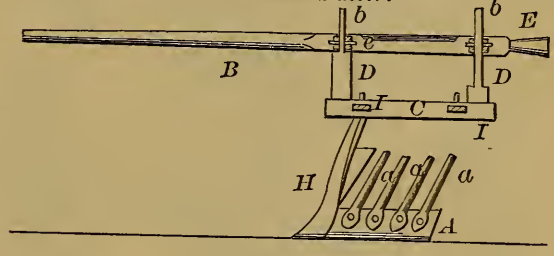


80992—E. Nicholson—*Road Gate.*

80993—W. T. Nicholson—*For Cutting Rasps.*



80994—S. R. Niles—*Bean Puller.*



80995—A. O'Neill—*Wash Boiler.*

80996—W. Park—*Fluid Meter.*

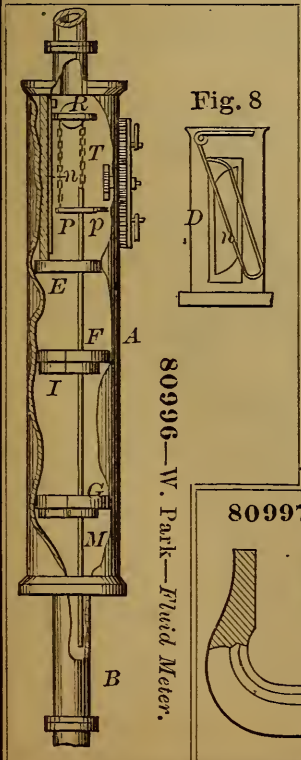
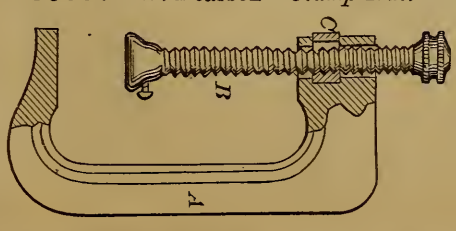
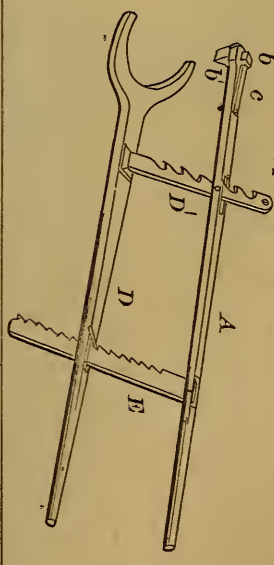


Fig. 8

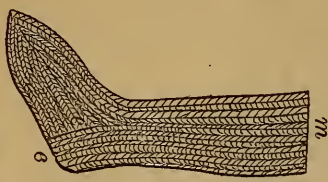
80997—W. Pearson—*Clamp Nut.*



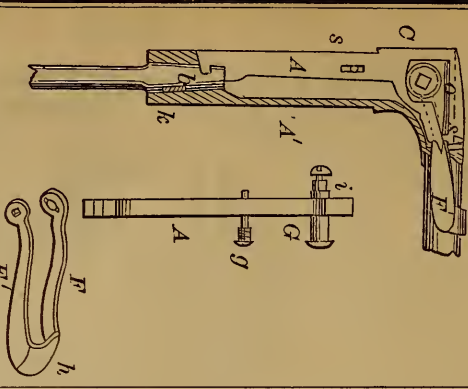
80998—G. W. Phelps—*Bolt Holder.*



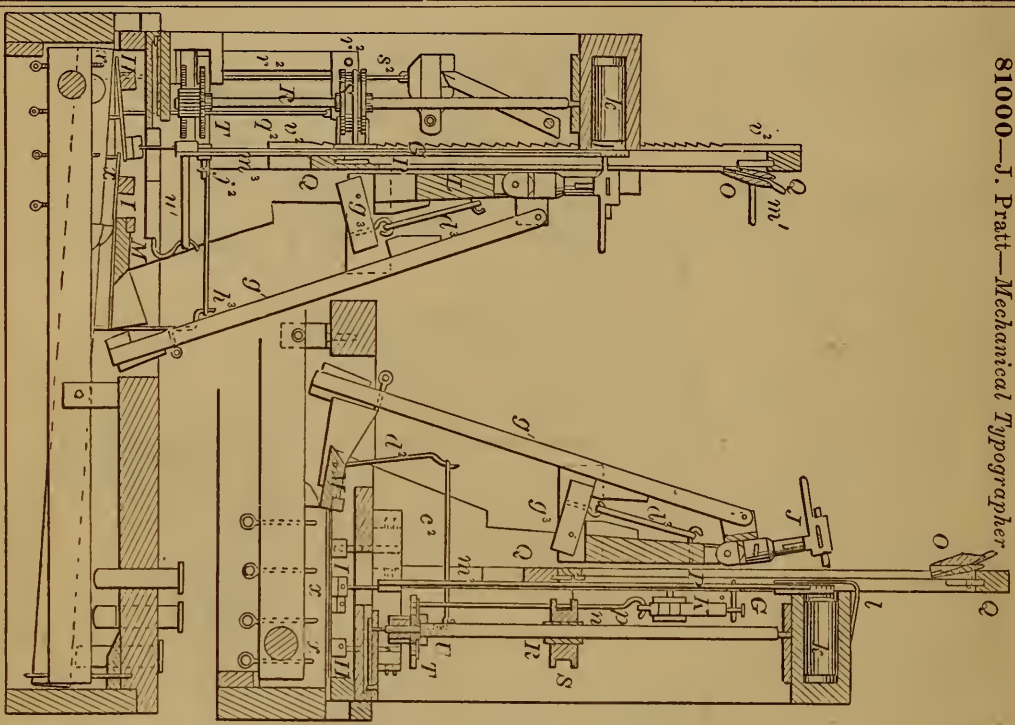
80999—E. O. Potter—*Forming Stockings.*



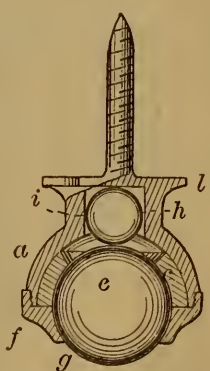
81008—O. G. Stratton—*Bit Stock.*



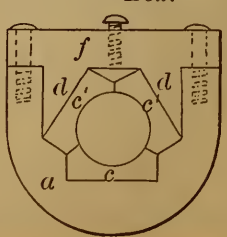
81000—J. Pratt—*Mechanical Typographer*

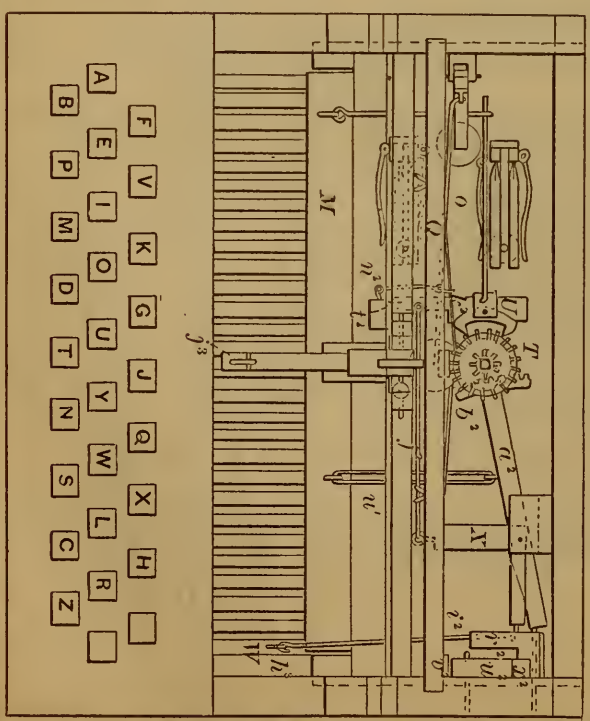


81001—S. C. Pratt—*Caster.*

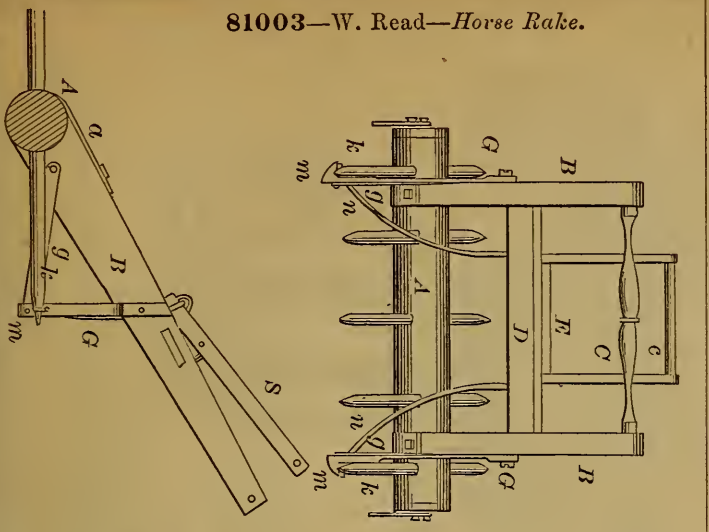


81002—H. M. Preston—*Journal Box.*

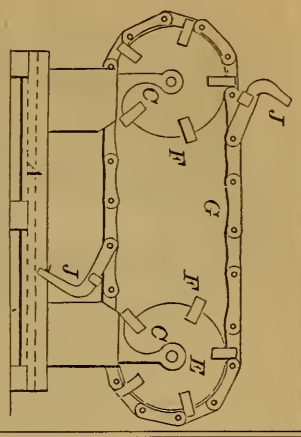




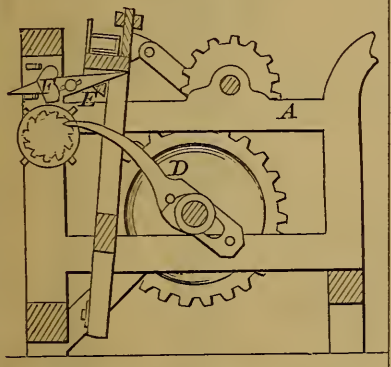
81003—W. Read—*Horse Rake.*



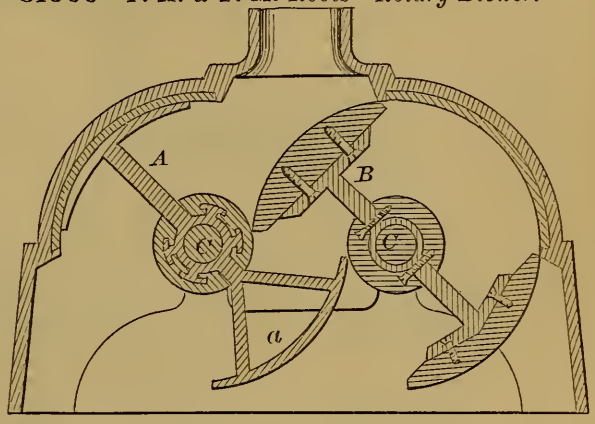
81004—W. T. B. Read—*Ice Elevator.*



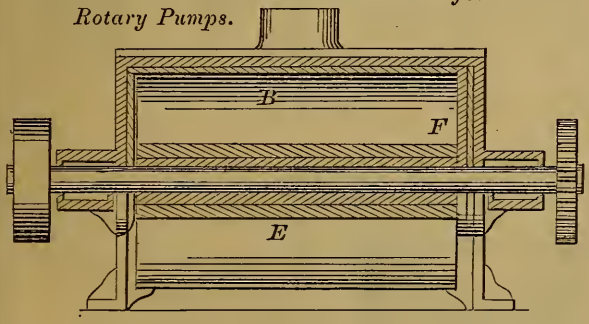
81005—M. Rice—*Actuating Shuttle Box.*



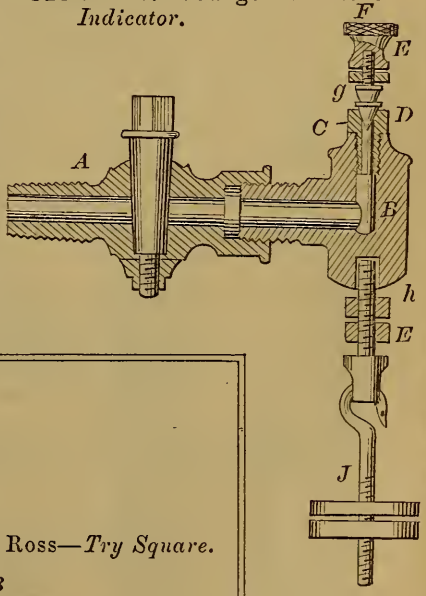
81009—P. H. & F. M. Roots—*Rotary Blower.*



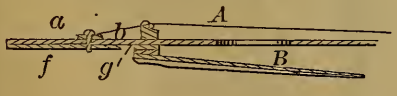
81010—P. H. & F. M. Roots—*Case for Rotary Pumps.*

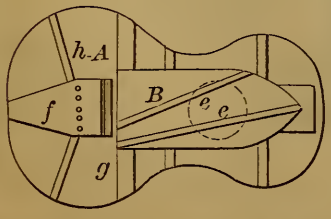


81006—F. T. Riegel—*Pressure Indicator.*

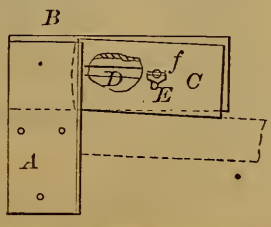


81012—G. Schleicher—*Stringed Musical Instrument.*

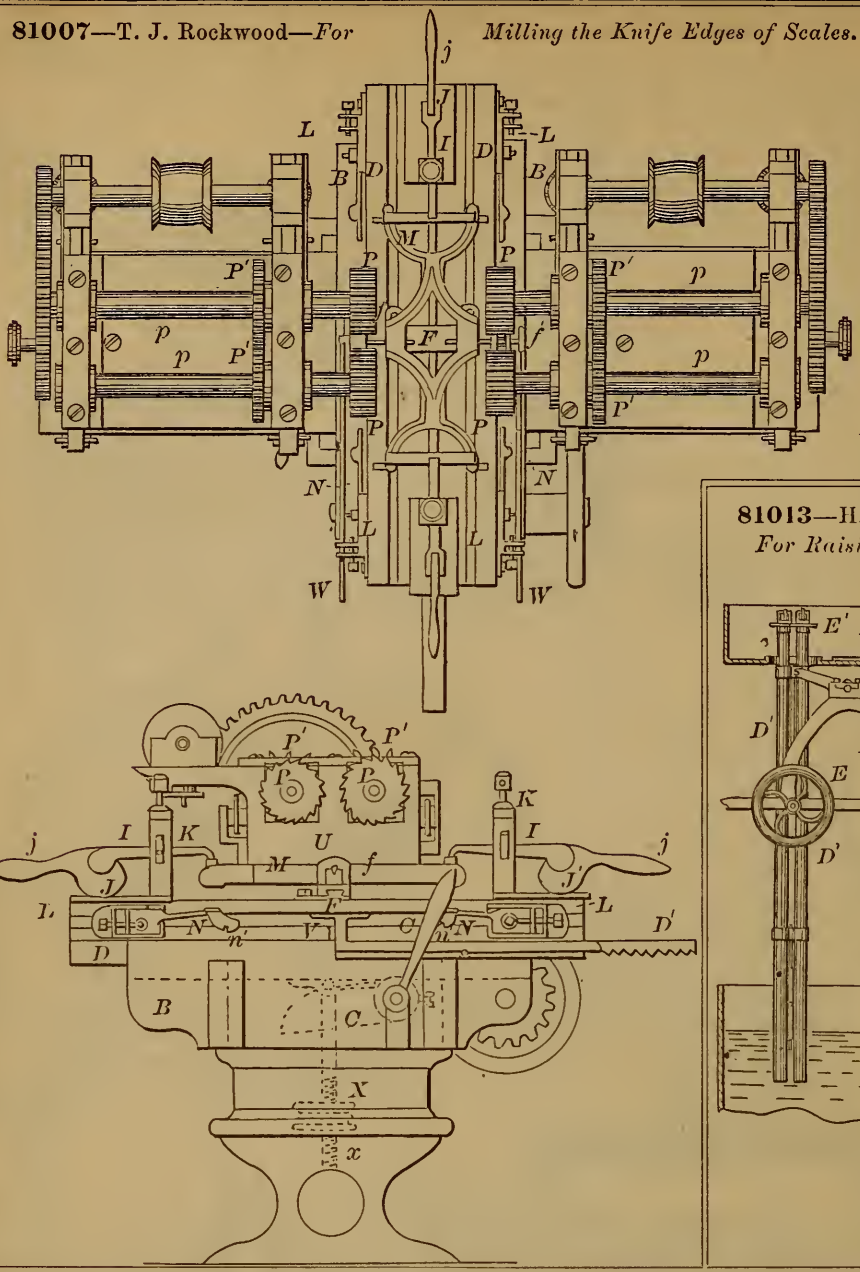




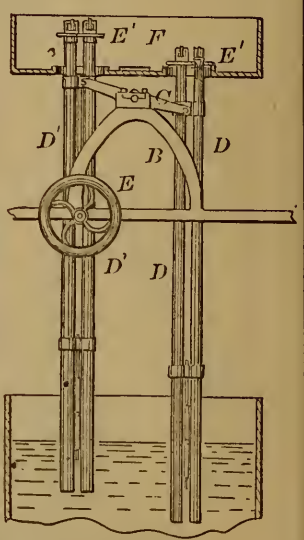
81011—W. Ross—*Try Square.*

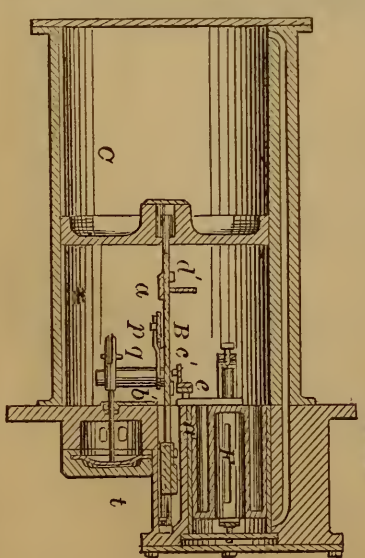


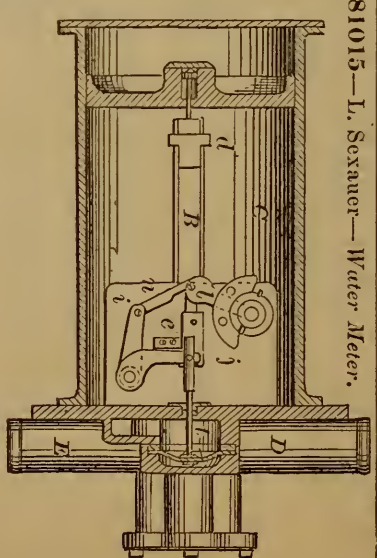
81007—T. J. Rockwood—*For Milling the Knife Edges of Scales.*



81013—H. Schlotter—*For Raising Water.*

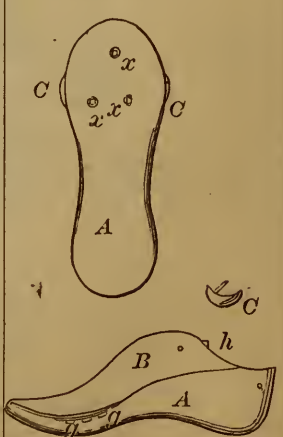




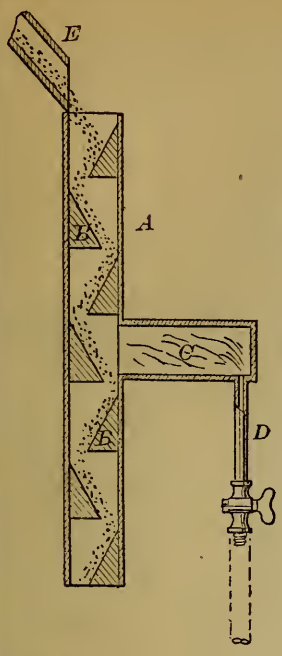


81015—L. Sexauer—*Water Meter.*

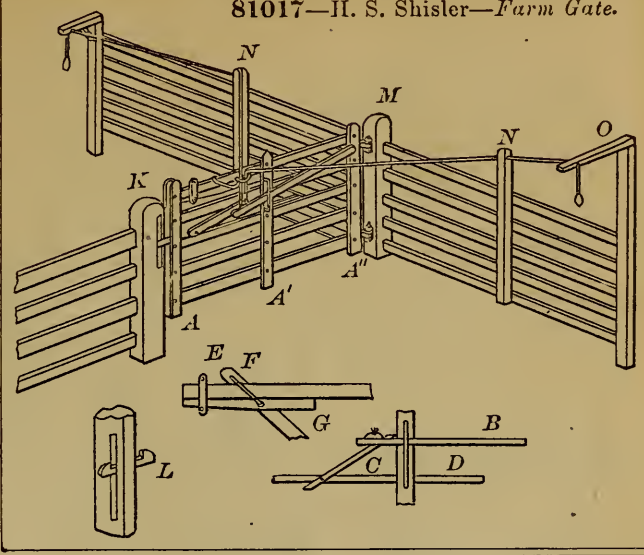
81014—J. Schmitt—*Shoe Last.*



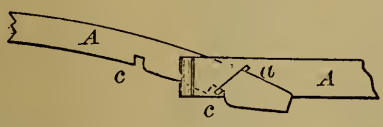
81016—J. Shellabarger—*For Dampening Grain.*



81017—H. S. Shisler—*Farm Gate.*



81018—J. A. Shone—*Cotton Bale Tie.*



81019—J. Shorey—*Curtain Fixture.*

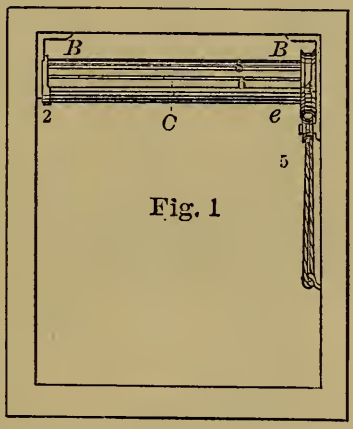


Fig. 1

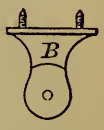
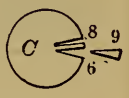
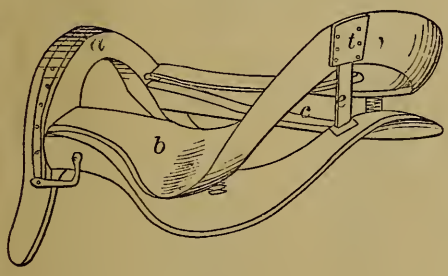


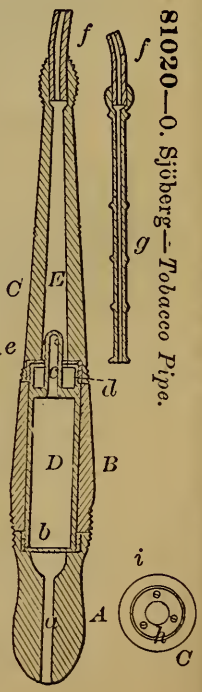
Fig. 2



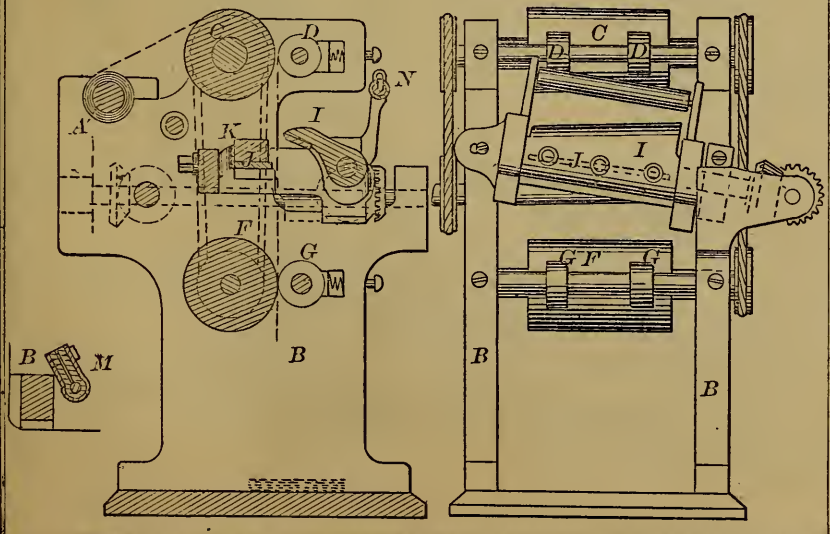
81022—J. T. Smelser—*Saddle Tree.*



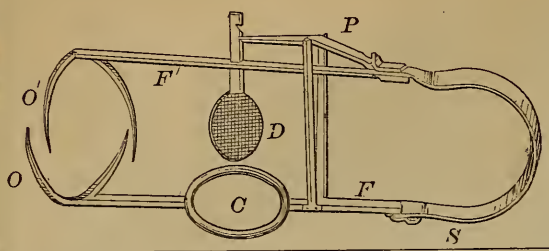
81020—O. Sjöberg—*Tobacco Pipe.*



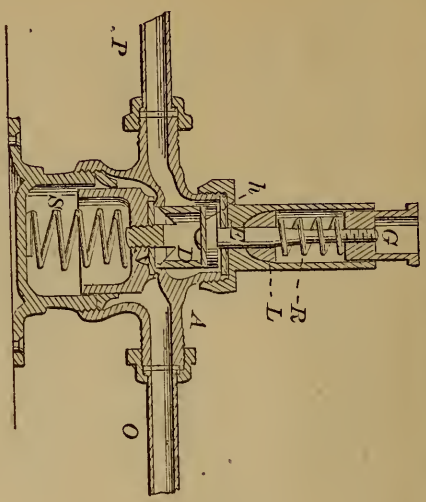
81021—H. Skidmore—*For Cutting Paper.*



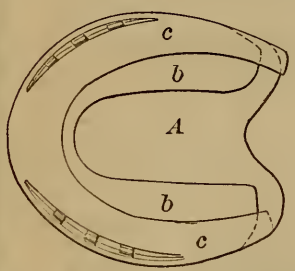
81023—O. R. Smith—*Animal Trap.*



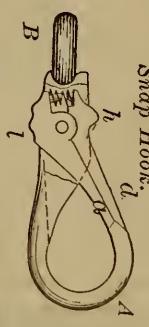
81024—W. Smith—*Water Closet Valve.*



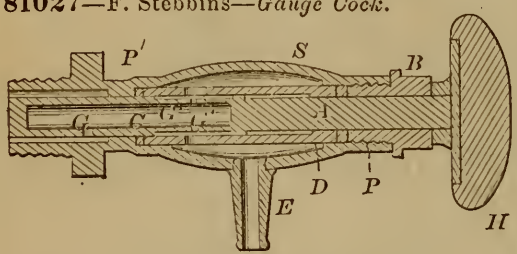
81025—H. W. Southworth—*Pad for Horses' Hoofs.*



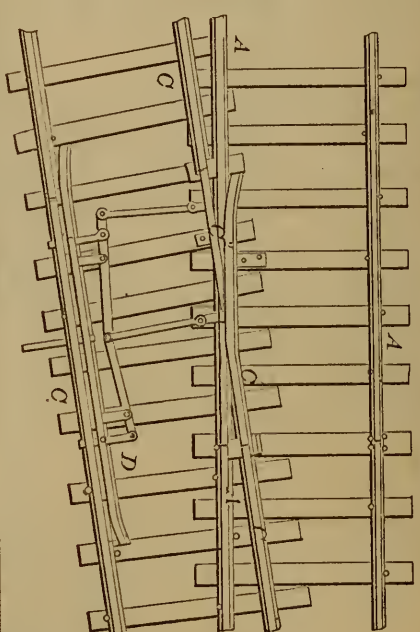
81026—W. E. Sparks—*Snap Hook.*



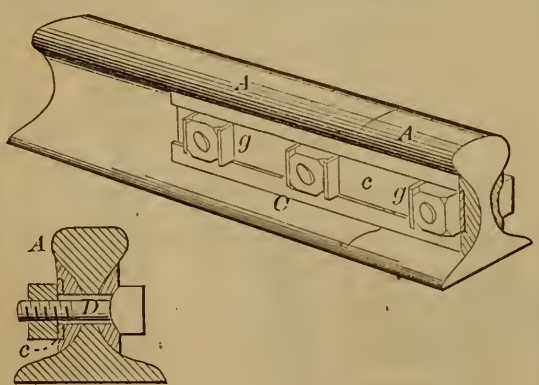
81027—F. Stebbins—*Gauge Cock.*



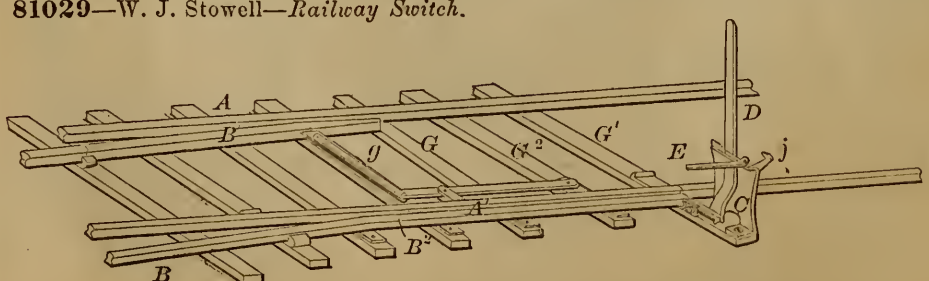
81028—W. J. Stowell—*Railway Switch.*



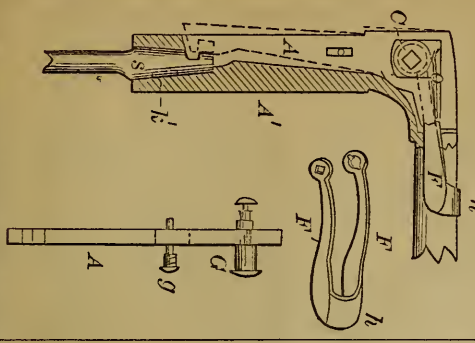
81030—W. J. Stowell—*Lock Nut.*



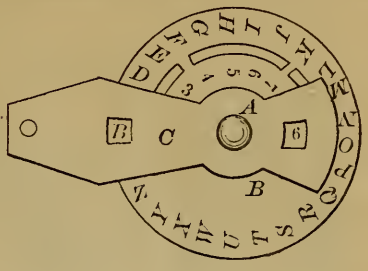
81029—W. J. Stowell—*Railway Switch.*



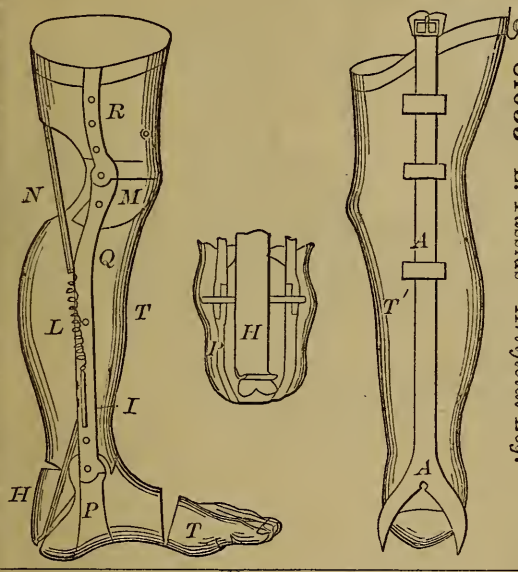
81031—O. G. Stratton—*Bit Stock.*



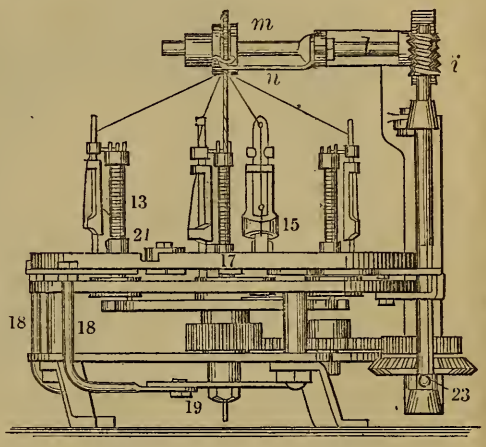
81032—E. L. Tarbox—*Stencil Plate.*



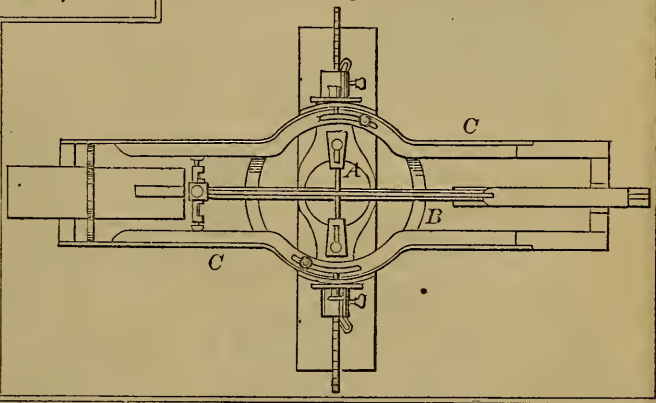
81033—L. Tassius—*Artificial Leg.*



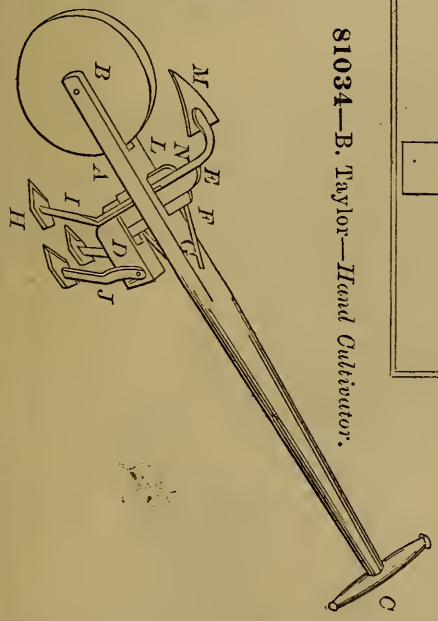
81038—W. Tunstill—*Braiding Machine.*



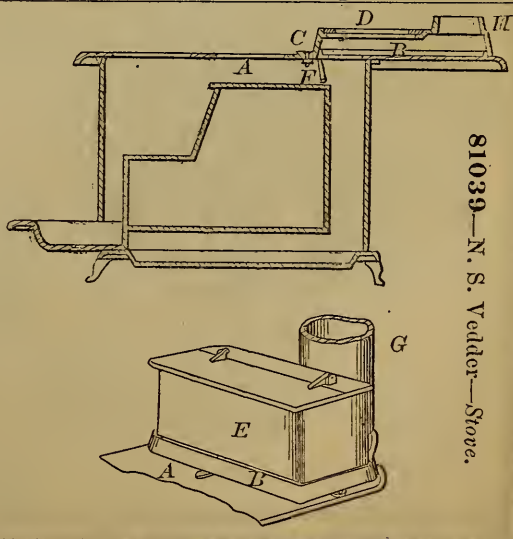
81035—J. Temple—*Saw Filing Machine.*



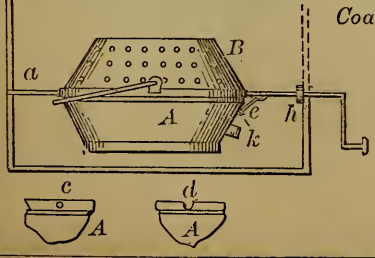
81034—B. Taylor—*Hand Cultivator.*



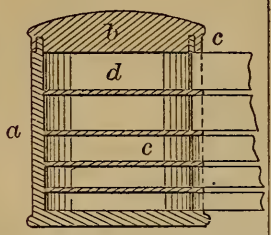
81039—N. S. Vedder—*Stove.*



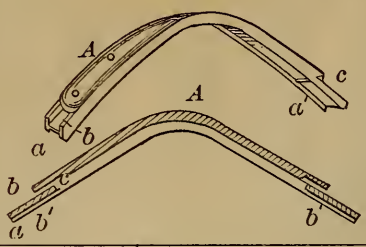
81037—T. J. Thurston—*Ash Screen and Coal Hod.*



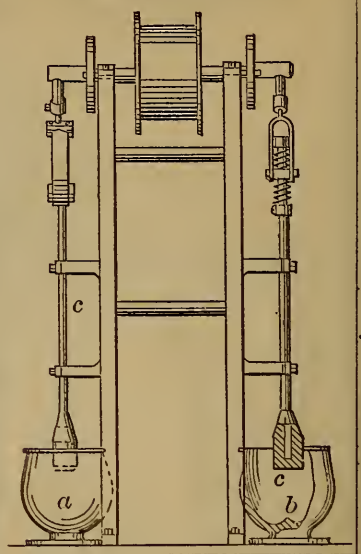
81040—M. B. Westhead—*Tape Box.*



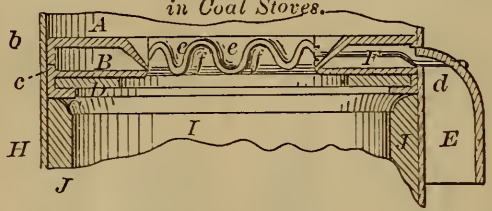
81041—J. H. Whissemore—*Harness Tree.*



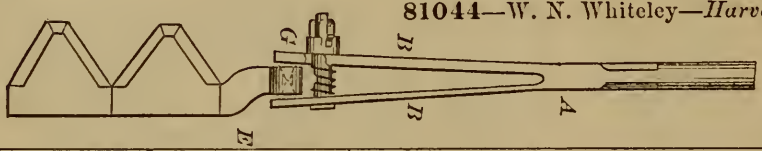
81042—J. H. White—*Rice Pounding Machine.*



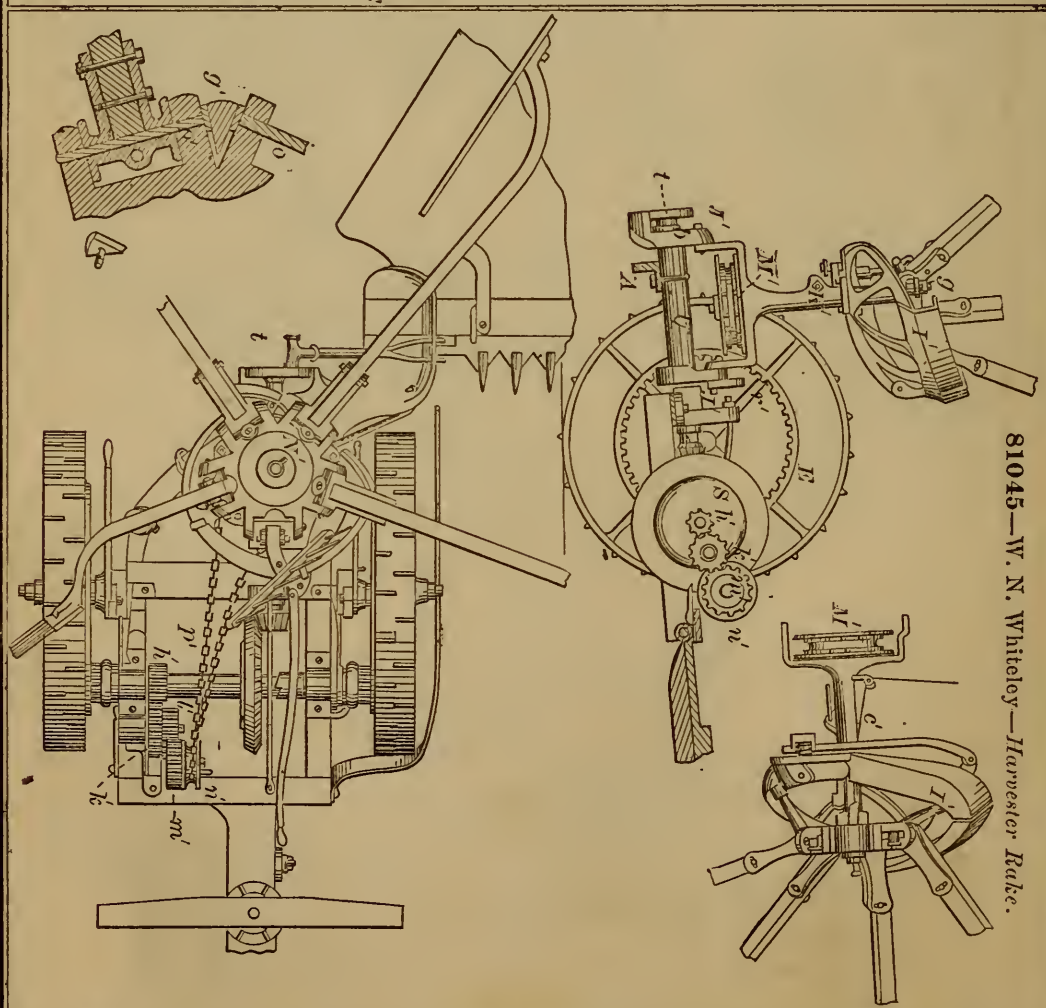
81043—W. H. Whitehead—*Combustion Chamber in Coal Stoves.*



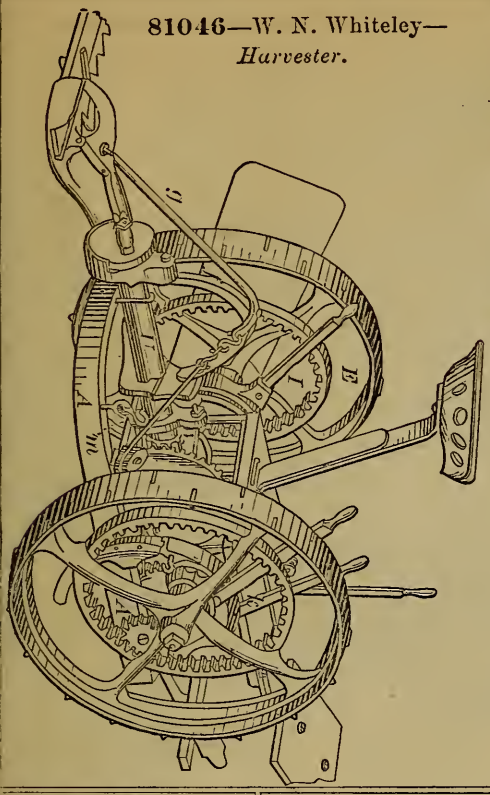
81044—W. N. Whiteley—*Harvester Cutter.*



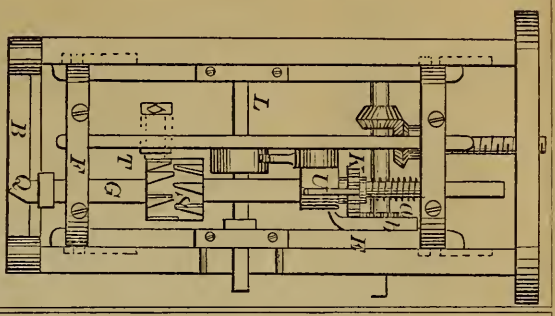
81045—W. N. Whiteley—*Harvester Rake.*



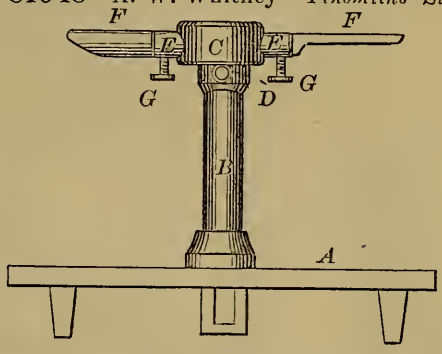
81046—W. N. Whiteley—*Harvester.*



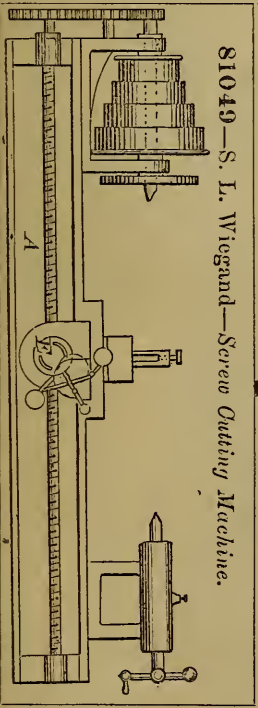
81047—C. Whitmore—*Rock Drill.*



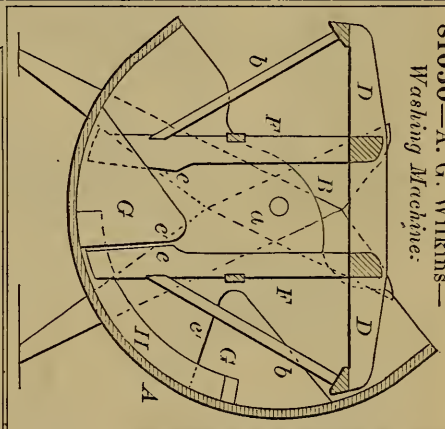
81048—A. W. Whitney—*Tinsmiths' Stake.*



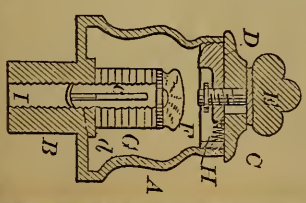
81049—S. L. Wiegand—*Screw Cutting Machine.*



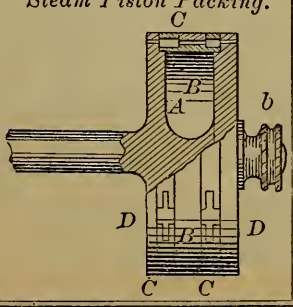
81050—A. G. Wilkins—*Washing Machine.*



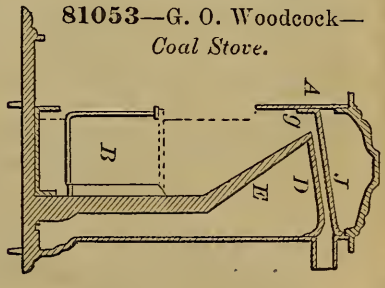
81051—N. B. Williams—*Oil Cup.*



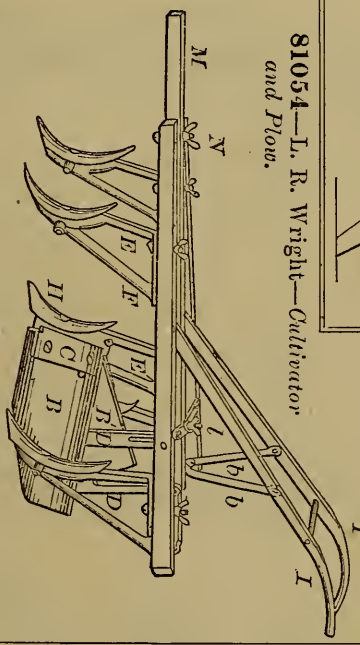
81052—W. Wilson—*Steam Piston Packing.*

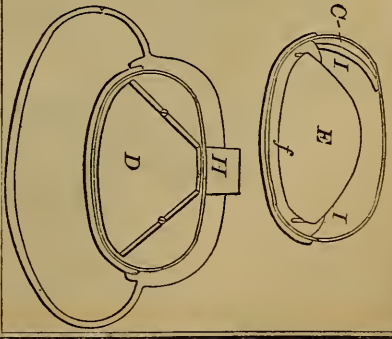


81053—G. O. Woodcock—*Coal Stove.*

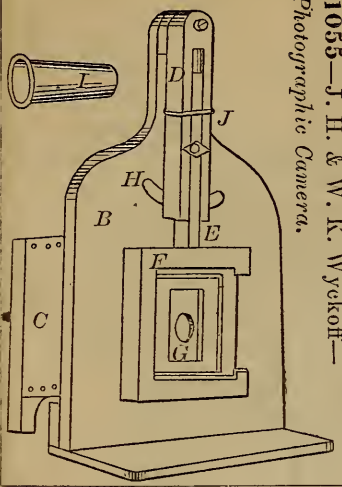


81054—L. R. Wright—*Cultivator and Plow.*

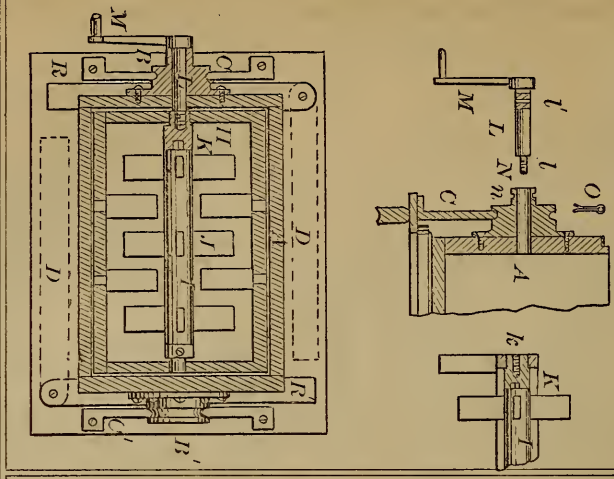




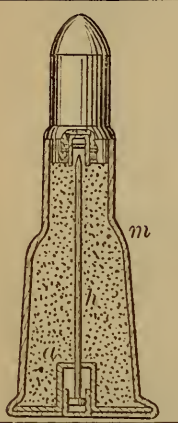
81055—J. H. & W. K. Wyckoff—*Photographic Camera.*



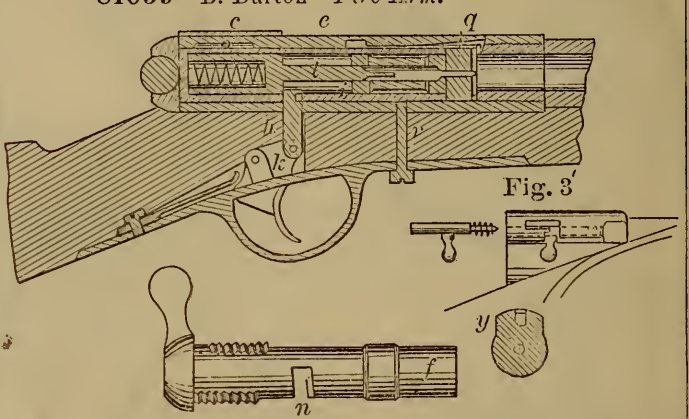
81056—C. E. Zimmerman—*Churn.*



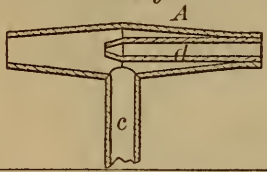
81058—B. Burton—*Priming Metallic Cartridges.*



81059—B. Burton—*Fire Arm.*

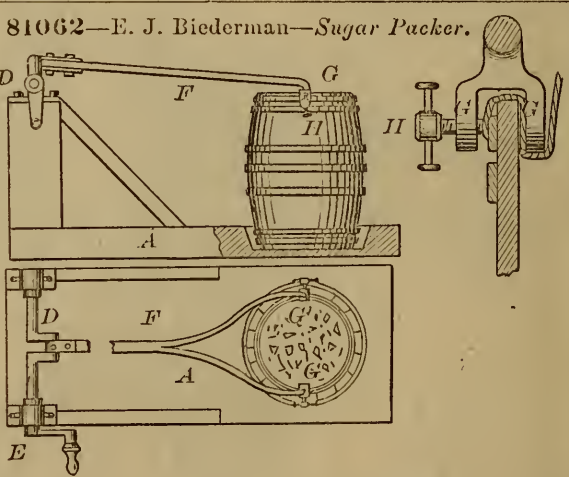


81060—E. H. Ashcroft—*For Ventilating and Desiccating.*

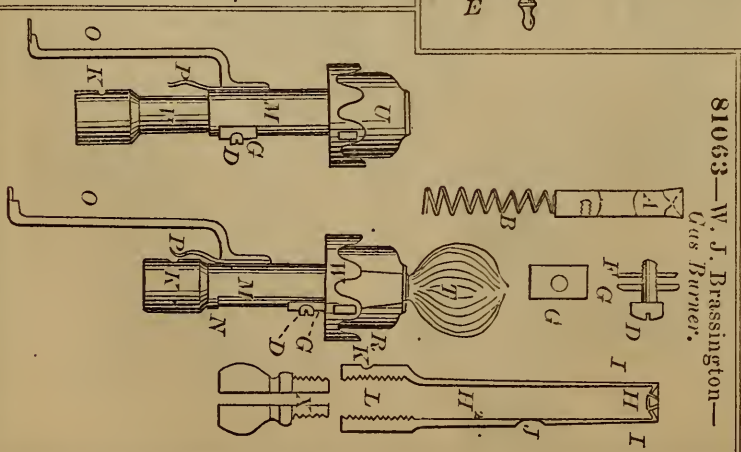


81061—A. J. Basset—*Boot and Shoe Sole.*

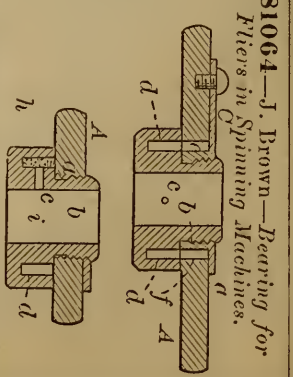
81062—E. J. Biederman—*Sugar Packer.*



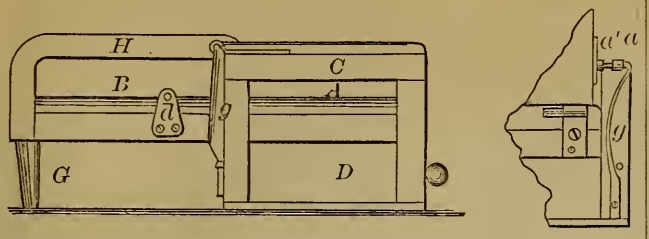
81063—W. J. Brassington—*Gas Burner.*



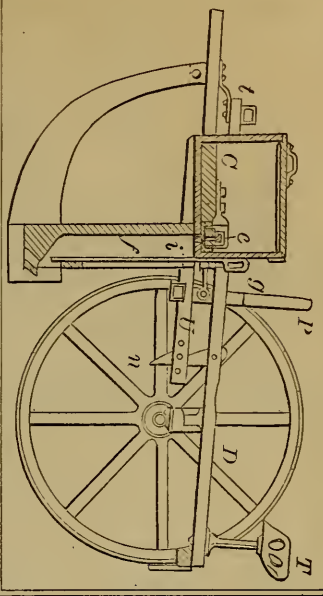
81064—J. Brown—*Bearing for Fliers in Spinning Machines.*



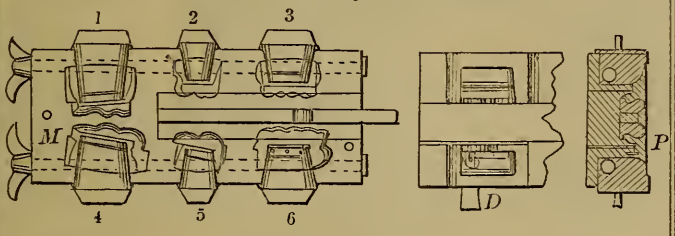
81065—W. Brown—*Sofa Bed.*



81066—J. Case—*Corn Planter.*

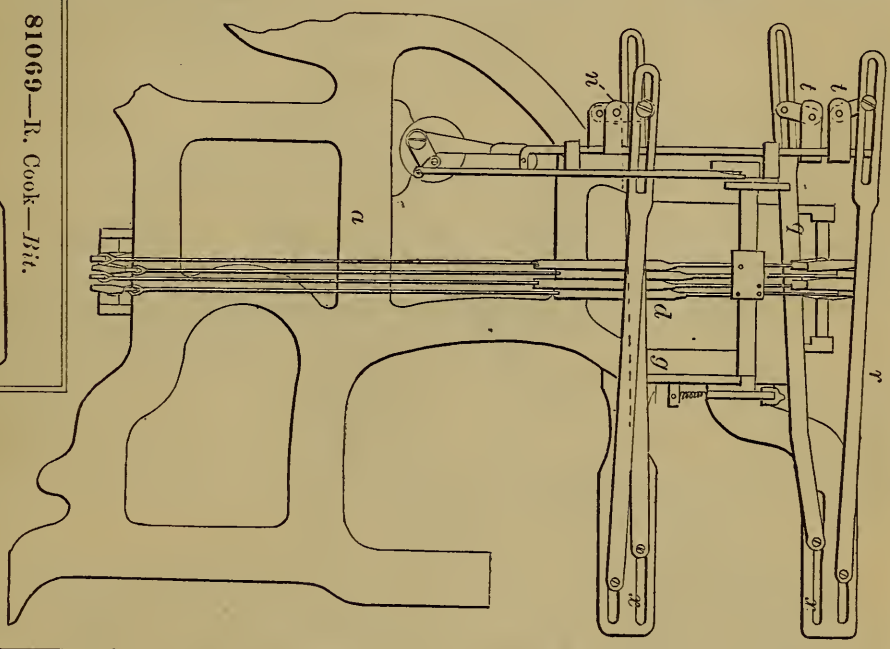


81068—J. W. Clark—*Artificial Teeth.*

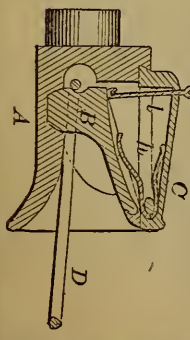


81069—R. Cook—*Bit.*

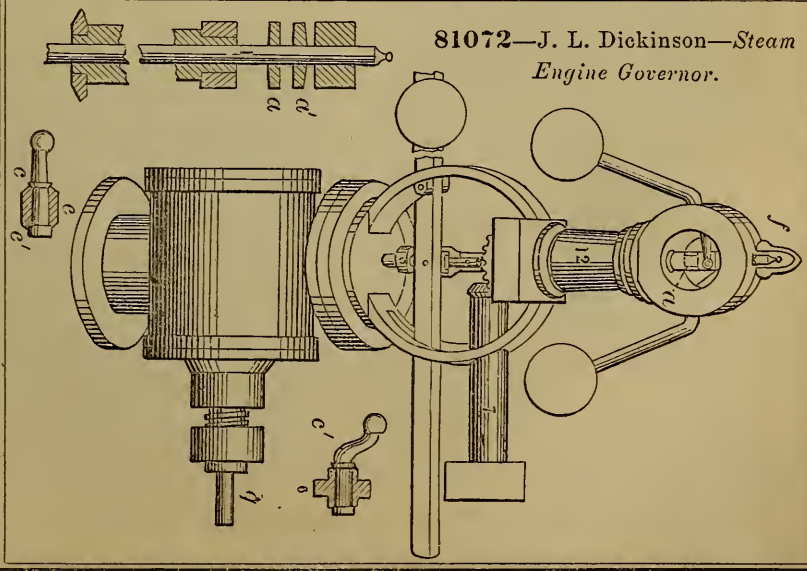
81070—G. Crompton—*Loom.*



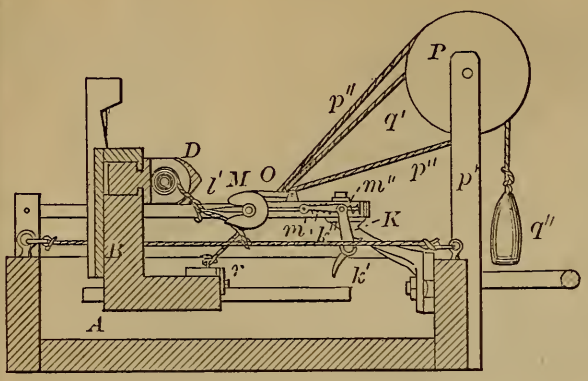
81067—E. W. Chadwick—*Car Coupling.*

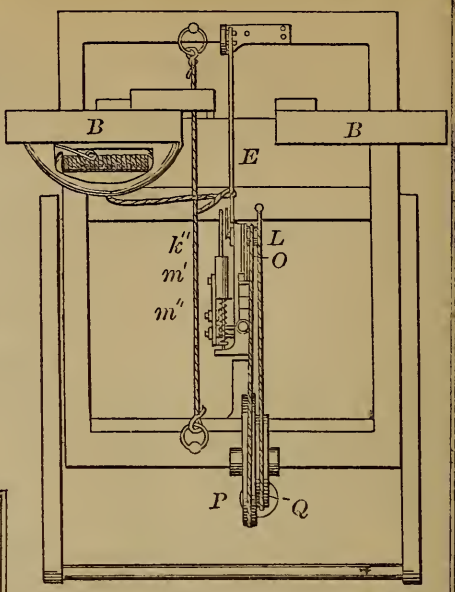


81072—J. L. Dickinson—*Steam Engine Governor.*

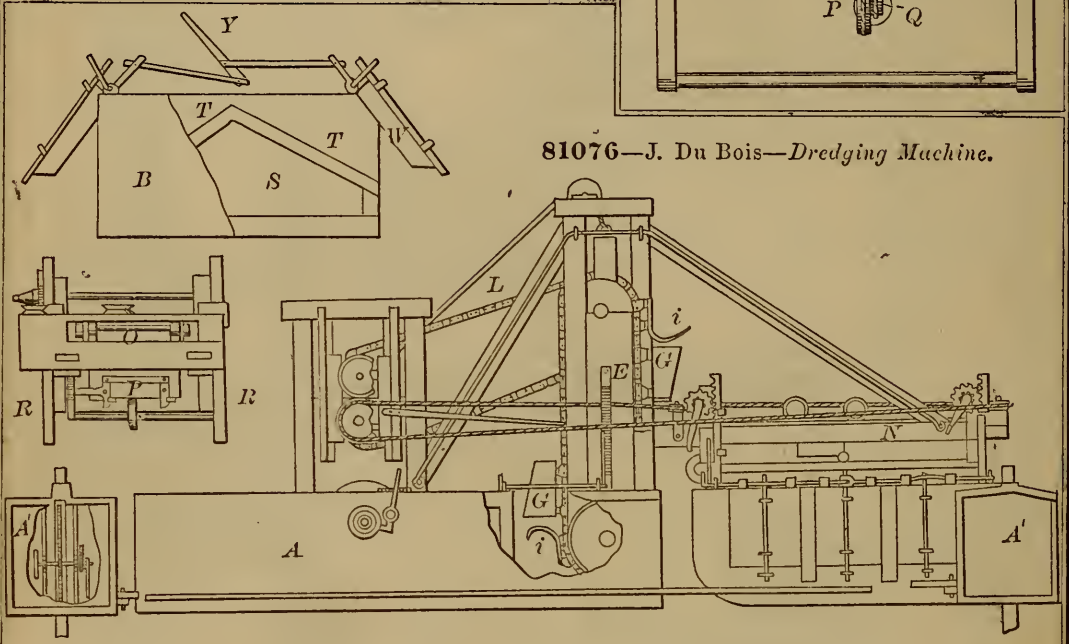


81073—E. Doran—*For Making Fringe.*

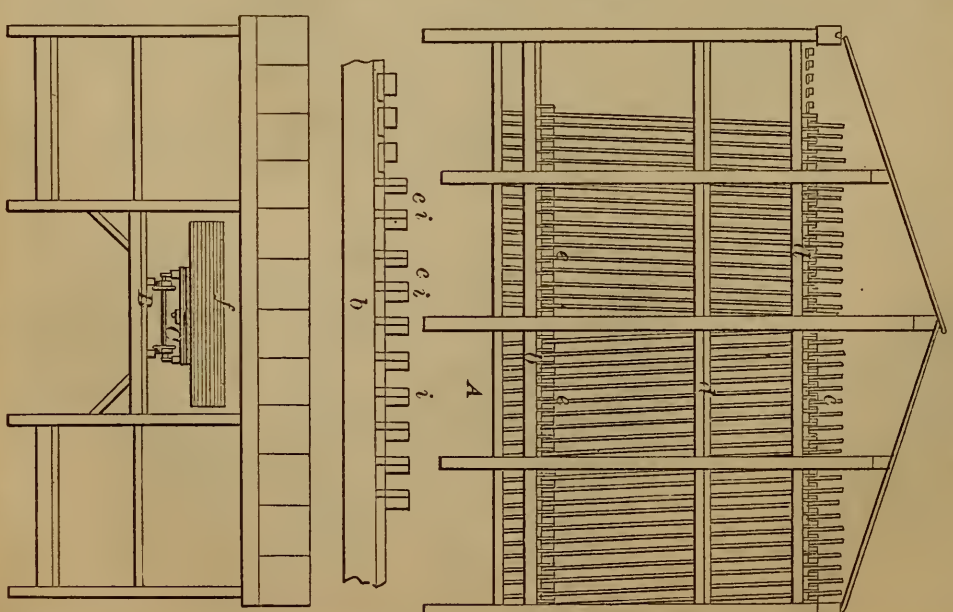




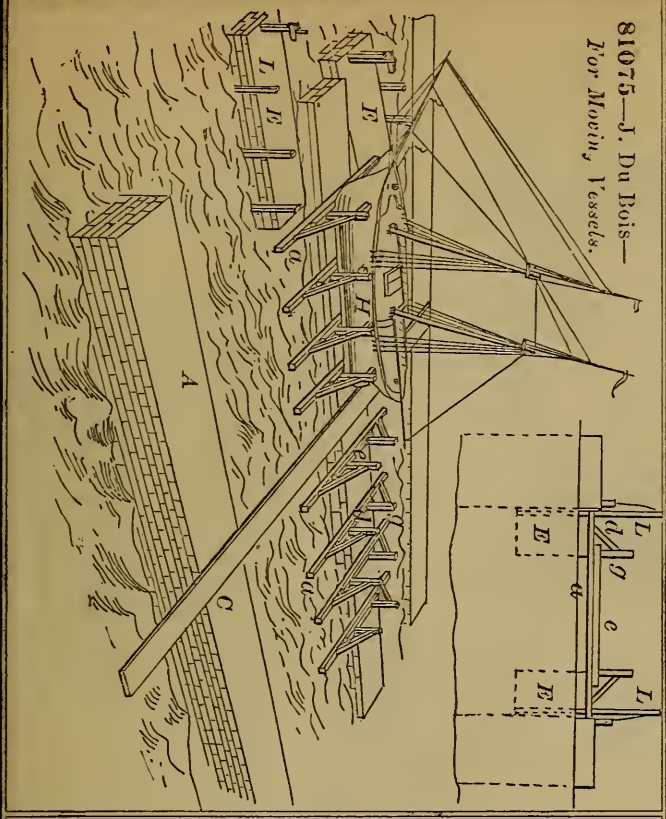
81076—J. Du Bois—*Dredging Machine.*



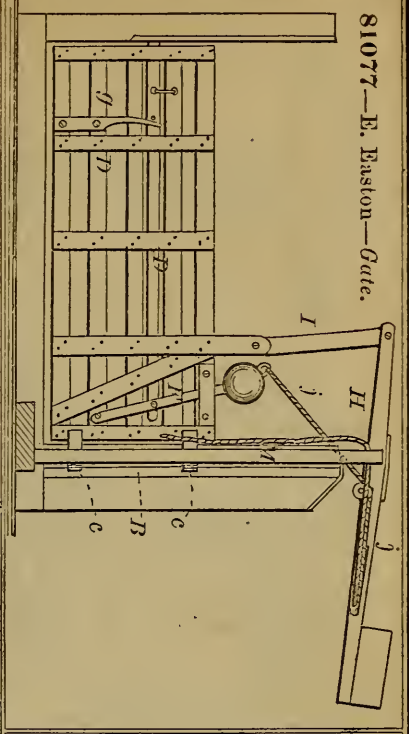
81074—J. Du Bois—*Lumber Dryer.*



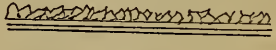
81075—J. Du Bois—*For Moving Vessels.*



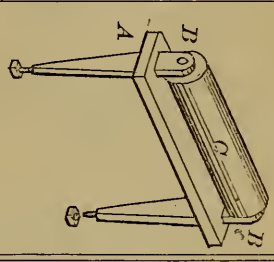
81077—E. Easton—*Gate.*



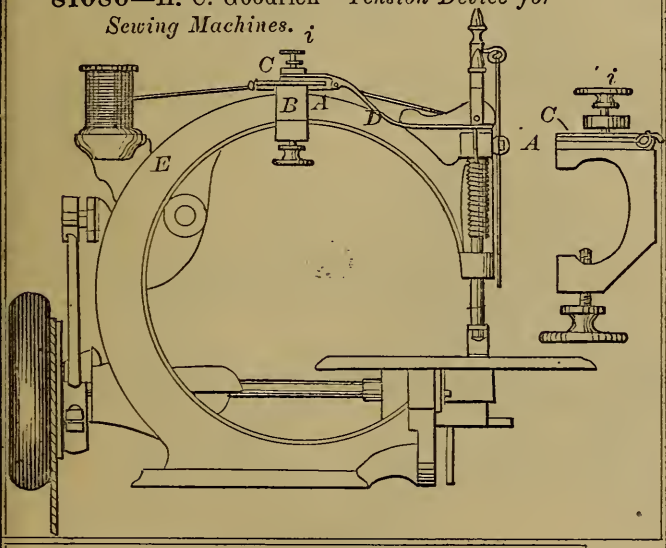
81078—M. Ehret, Jr.—*Roofing.*



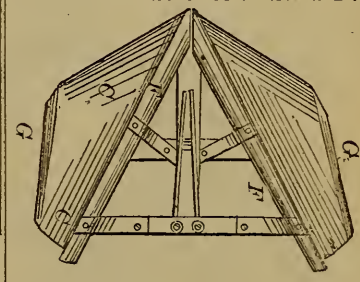
81079—J. Elmiro—*Axle.*



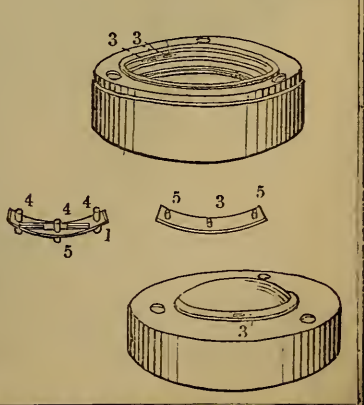
81080—H. C. Goodrich—*Tension Device for Sewing Machines.*



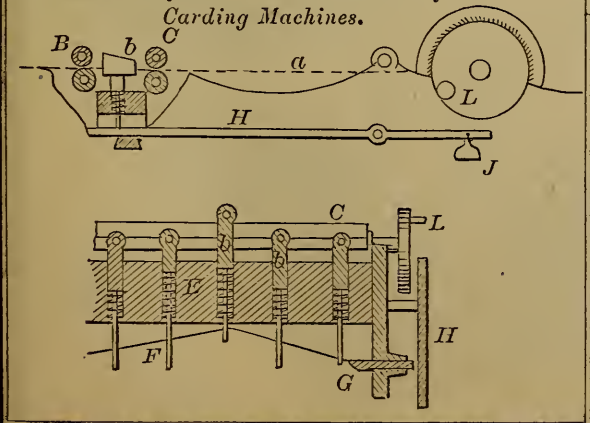
81081—N. S. Green—*Snow Plow.*



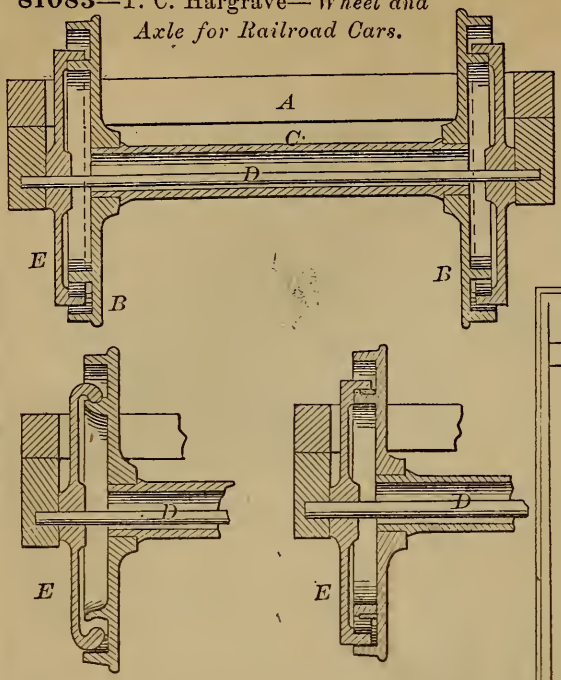
81082—W. H. Halsy—*Moulding Watch Cases and Lockets from Hard Rubber.*



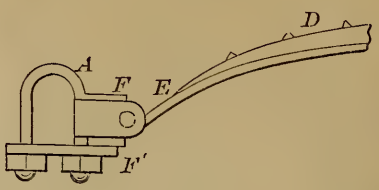
81084—Haythorn & Price—*Alarm for Carding Machines.*



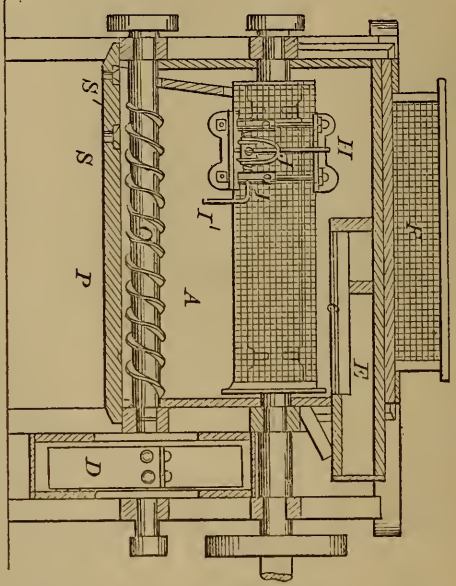
81083—T. C. Hargrave—*Wheel and Axle for Railroad Cars.*



81085—S. E. Horner—*Thill Coupling.*

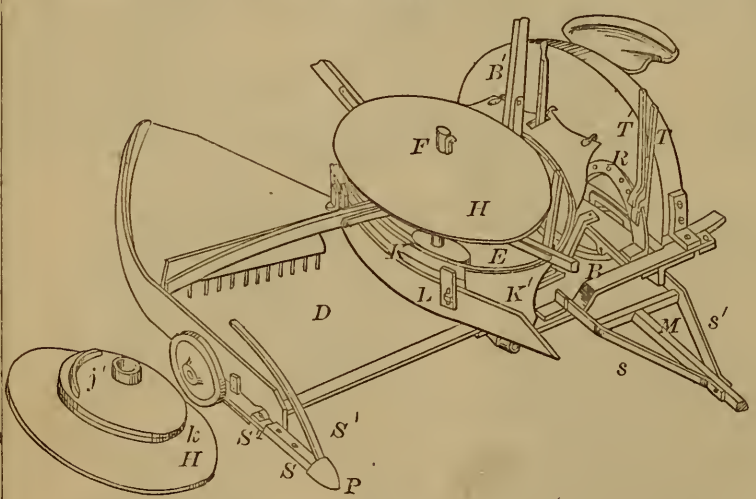


81086—C. B. Horton—*Flour Bolt.*

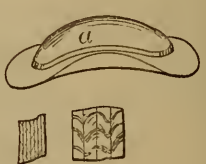


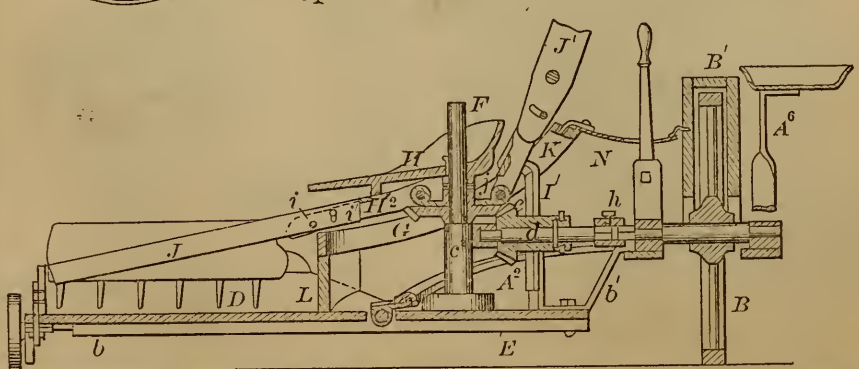
81087—A. J. F. Howard—*Boot Crimper.*

81090—S. Hull—*Harvester Rake.*

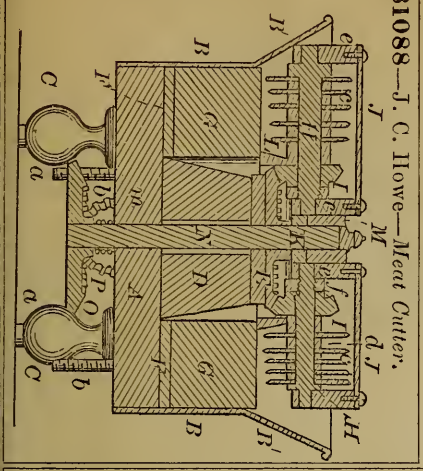


81089—Hulbert & Follett—*Hat.*

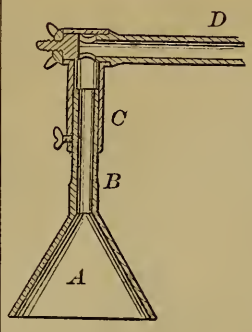




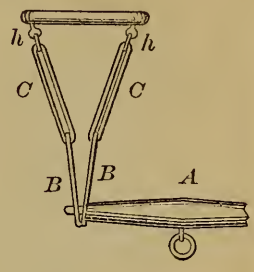
81088—J. C. Howe—*Meat Cutter.*



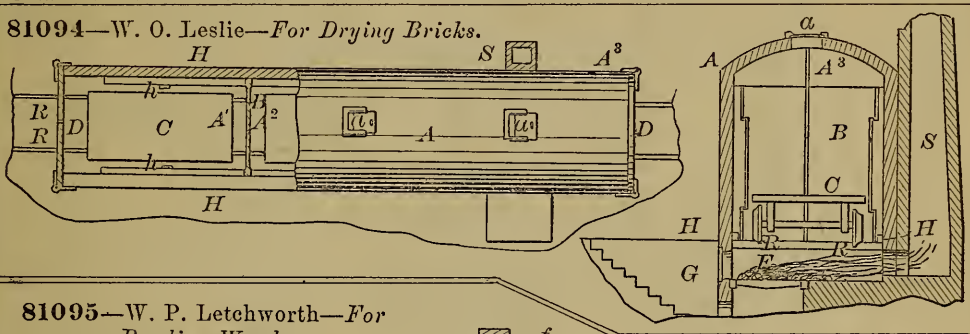
81091—A. Hurff—*Ventilator.*



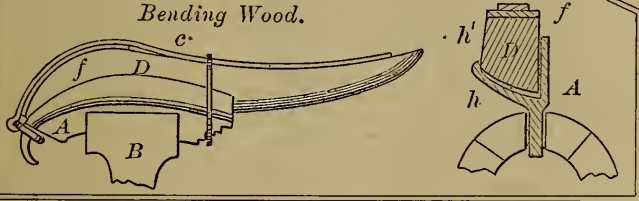
81092—N. Irish—*Attaching Pole Straps to Neck Yokes.*



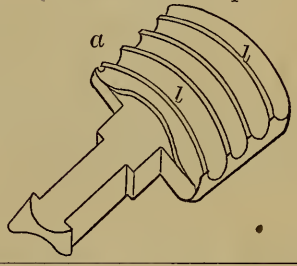
81094—W. O. Leslie—*For Drying Bricks.*



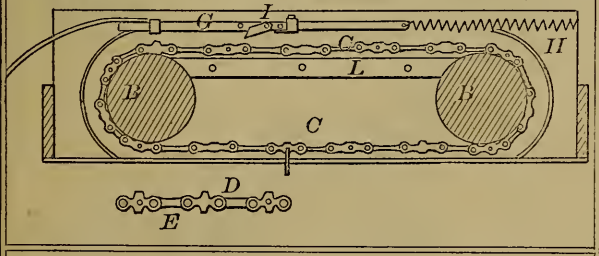
81095—W. P. Letchworth—*For Bending Wood.*



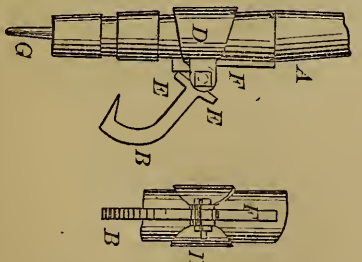
81096—Mann & Howard—*Boot Crimp.*



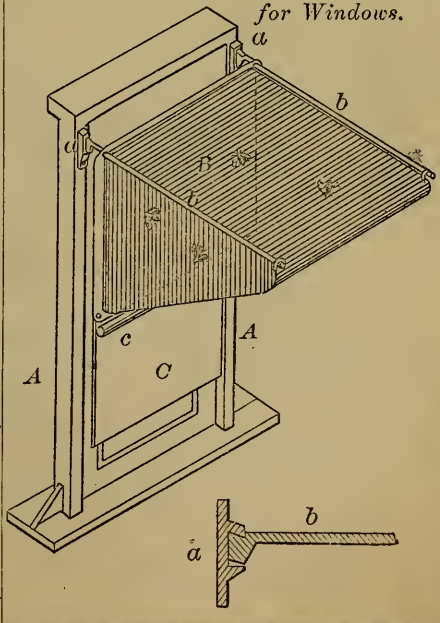
81097—C. K. Marshall—*Station Indicator.*



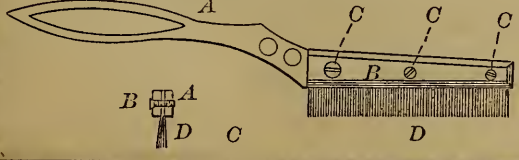
81098—J. McDonald—*Cant Hook.*



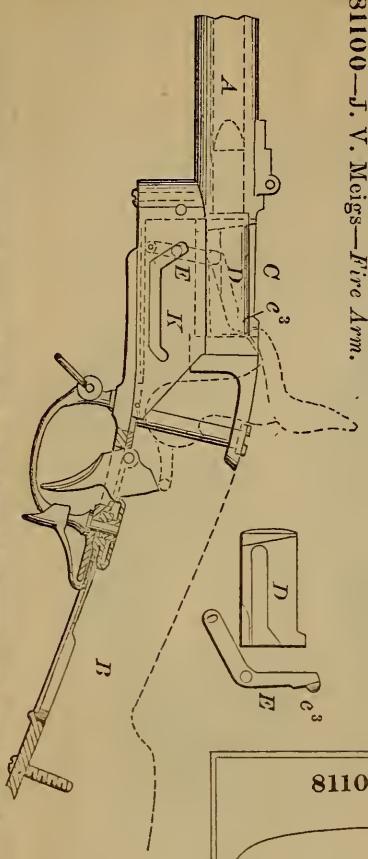
81099—McGowan & Hale—*Fly Net for Windows.*



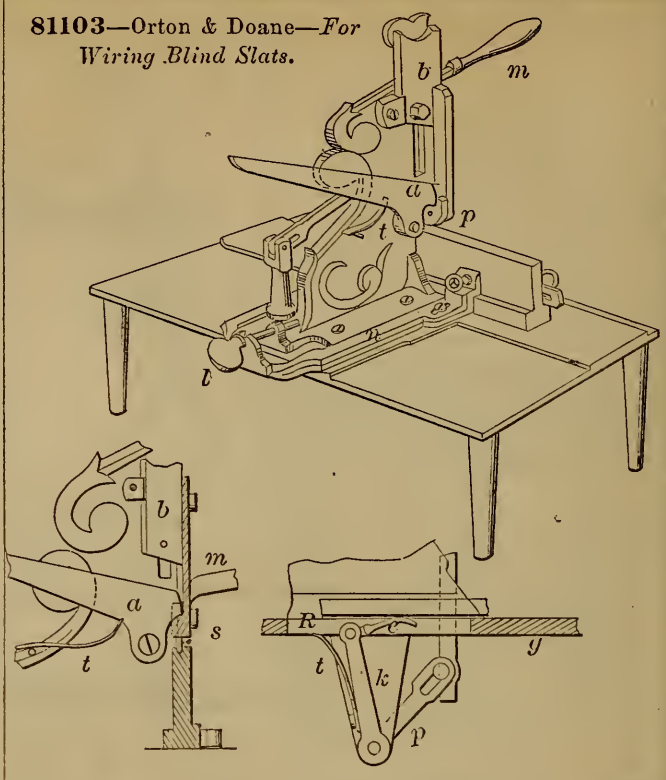
81101—W. M. Newton—*Brush.*



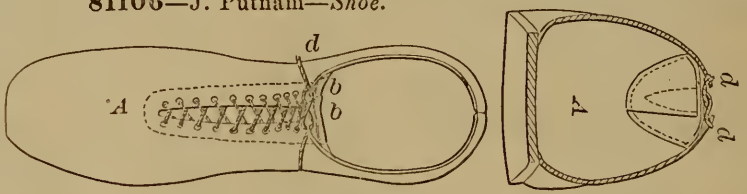
81100—J. V. Meigs—*Fire Arm.*



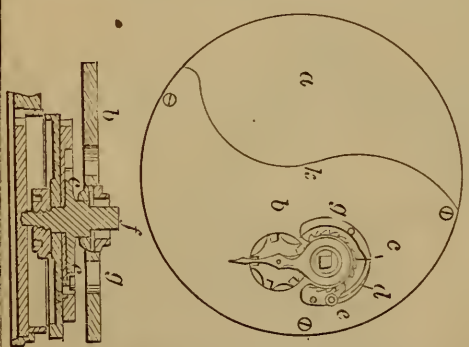
81103—Orton & Doane—*For Wiring Blind Slats.*



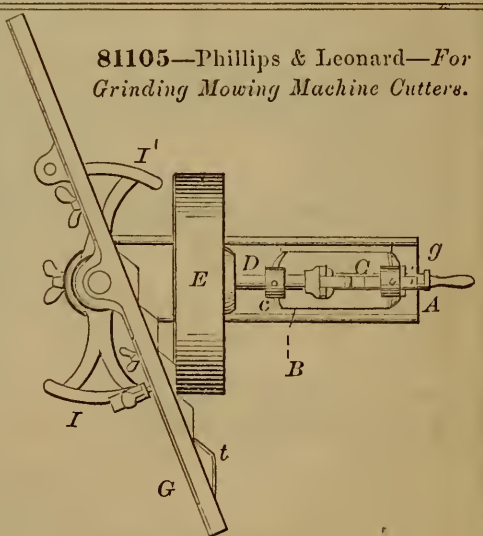
81106—J. Putnam—*Shoe.*



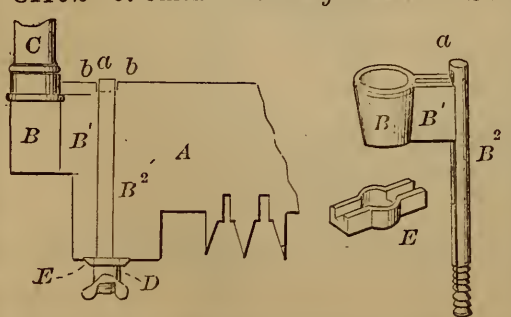
81107—G. P. Reed—*Watch.*

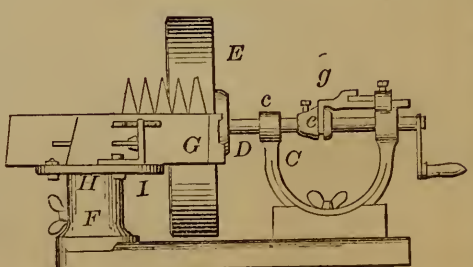


81105—Phillips & Leonard—*For Grinding Mowing Machine Cutters.*

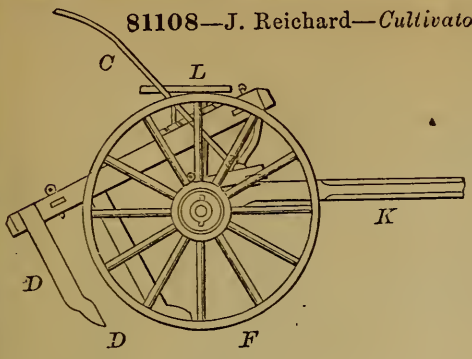


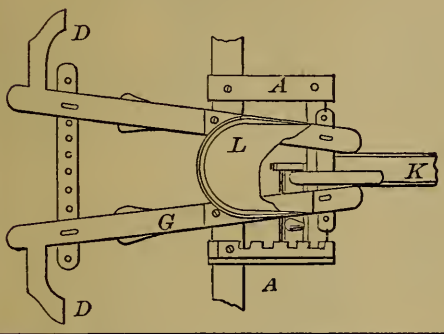
81102—J. Ohlen—*Attaching Handles to Saws.*



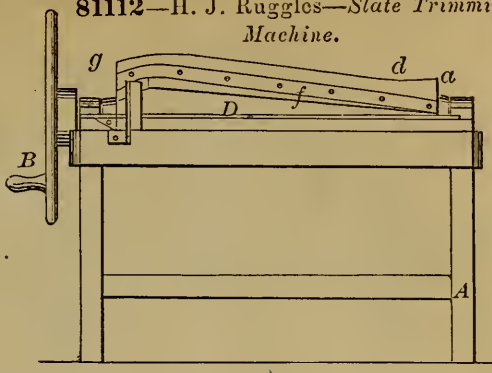


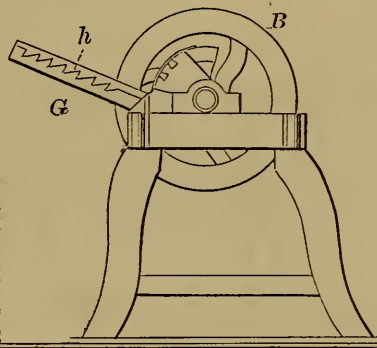
81108—J. Reichard—*Cultivator.*



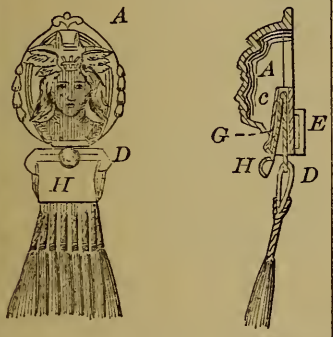


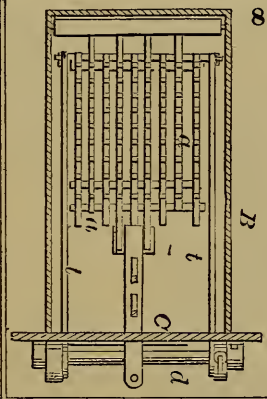
81112—H. J. Ruggles—*Slate Trimming Machine.*



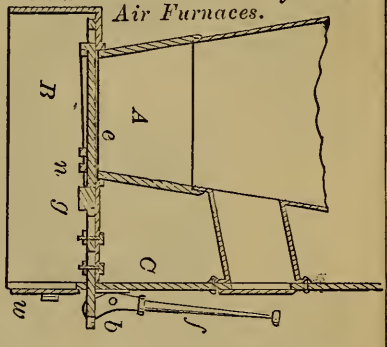


81110—C. F. Richers—*Harness Rosette.*

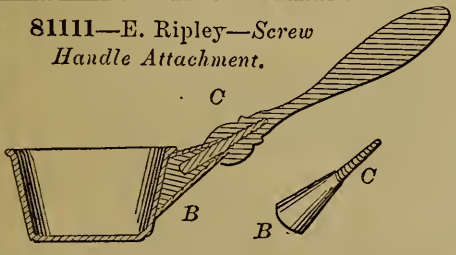




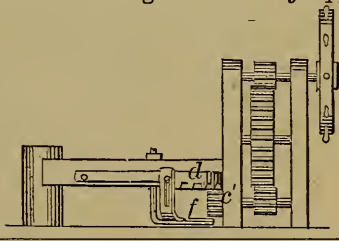
81109—E. S. Renwick—*Grate for Hot Air Furnaces.*



81111—E. Ripley—*Screw Handle Attachment.*

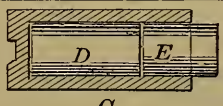


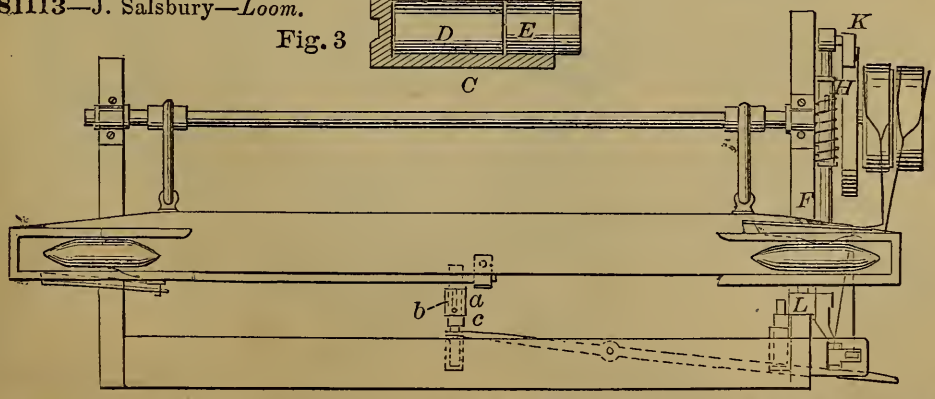
81114—A. Sargent—*Steering Apparatus.*



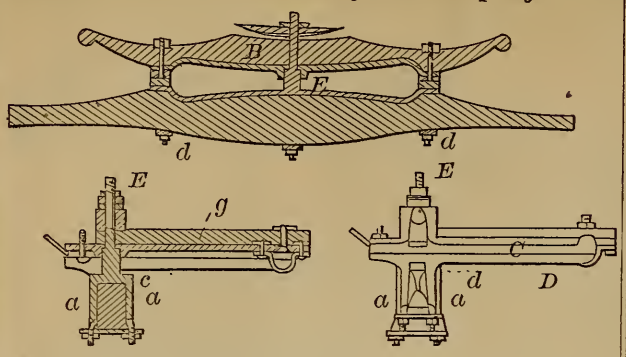
81113—J. Salsbury—*Loom.*

Fig. 3

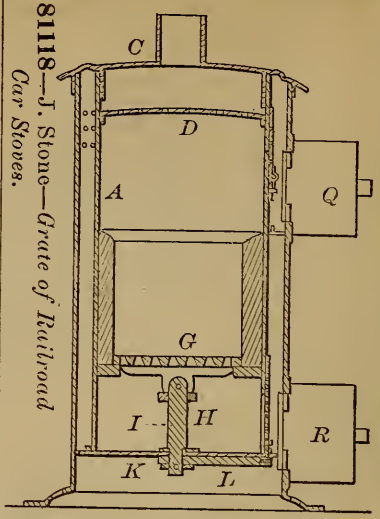




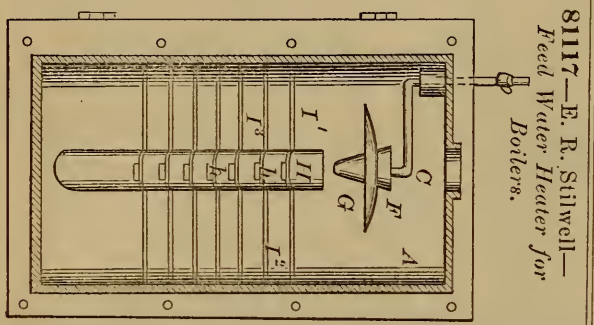
81115—G. F. Smith—*Carriage Axle Coupling.*



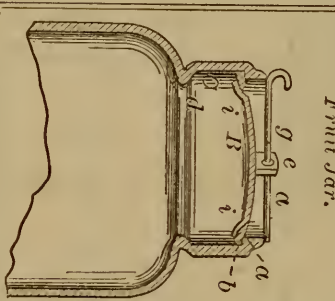
81118—J. Stone—*Grate of Railroad Car Stoves.*



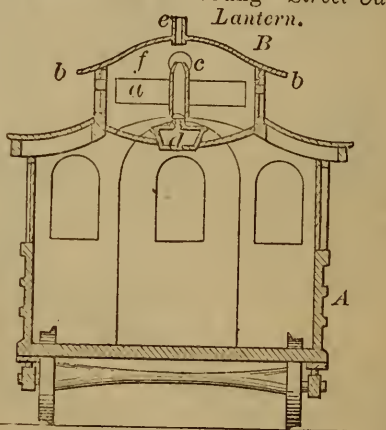
81117—E. R. Stilwell—*Feed Water Heater for Boilers.*



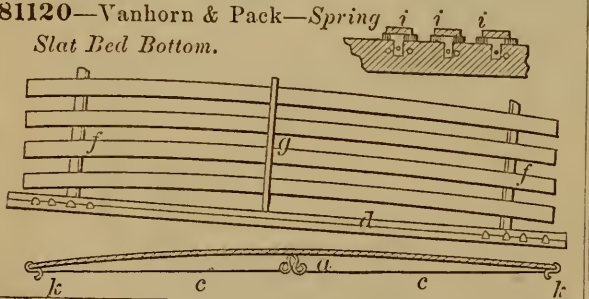
81116—C. F. Spencer—*Fruit Jar.*



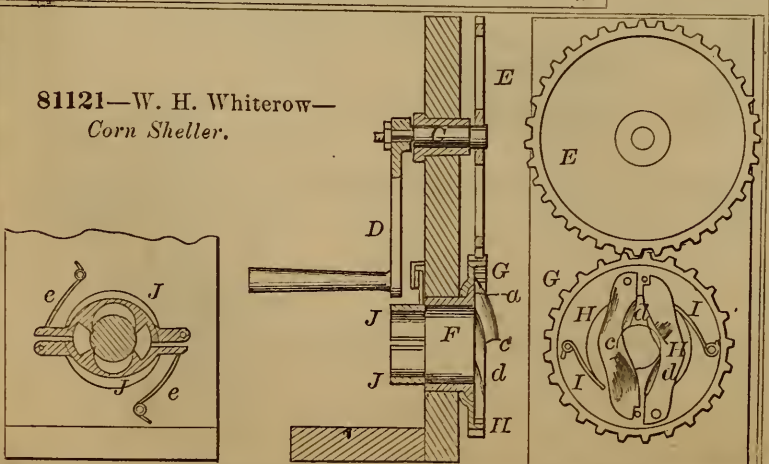
81124—A. A. Young—*Street Car Lantern.*



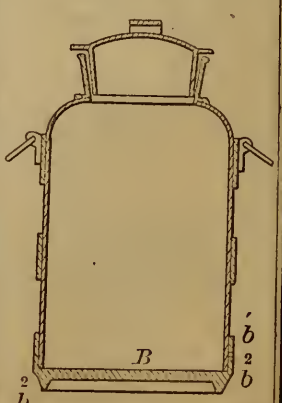
81120—Vanhorn & Pack—*Spring Slat Bed Bottom.*



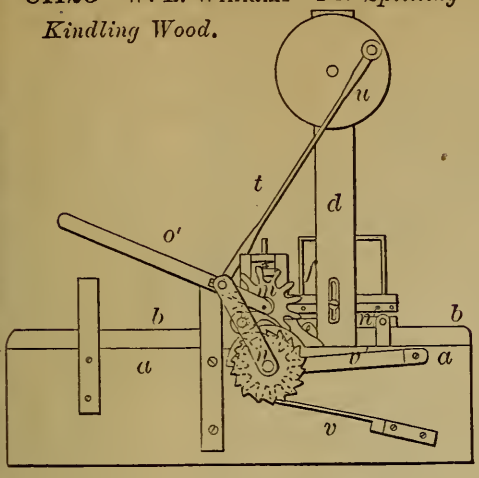
81121—W. H. Whiterow—*Corn Sheller.*

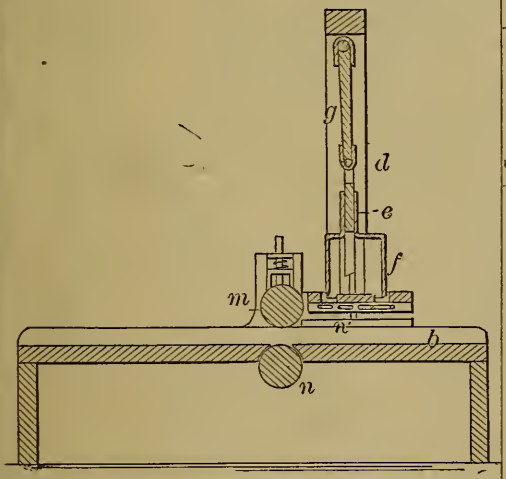


81119—I. Vanderslice—*Milk Can.*

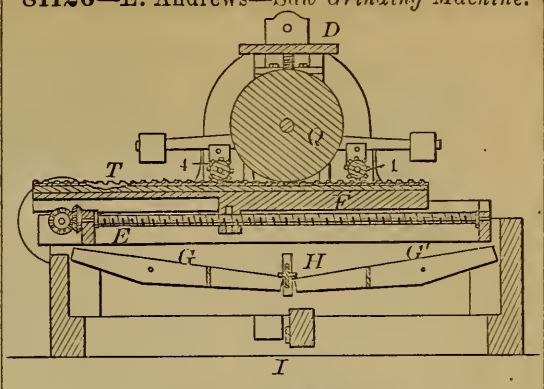


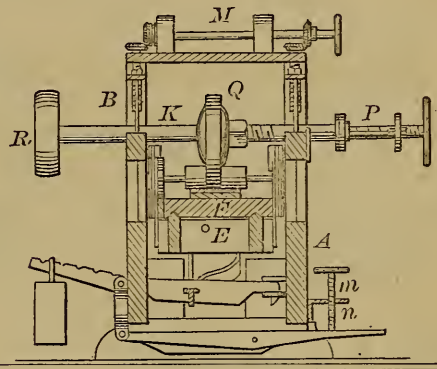
81123—W. L. Williams—*For Splitting Kindling Wood.*



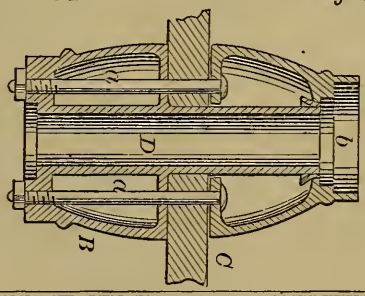


81126—E. Andrews—*Saw Grinding Machine.*

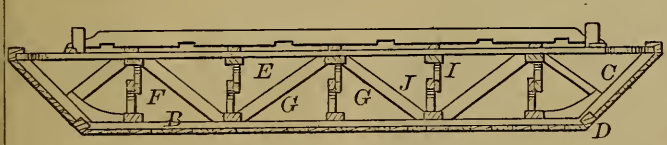


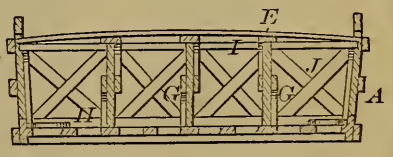


81127—E. R. Baker—*Wagon Hub.*

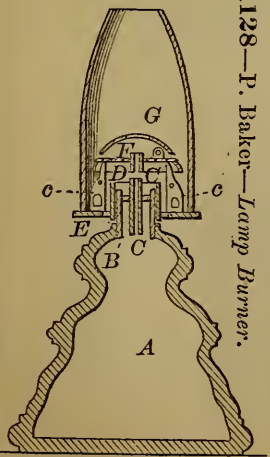


81125—E. J. Allen—*Scow.*

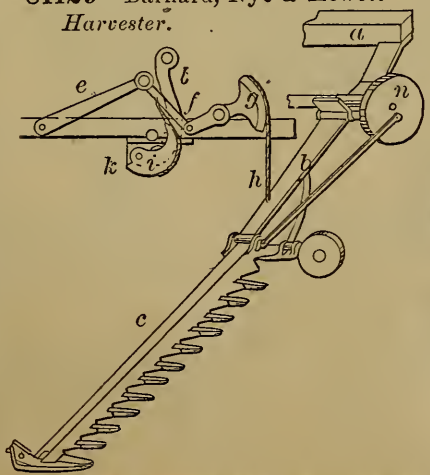




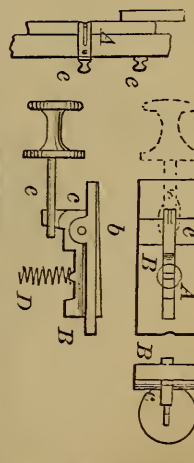
81128—P. Baker—*Lamp Burner.*



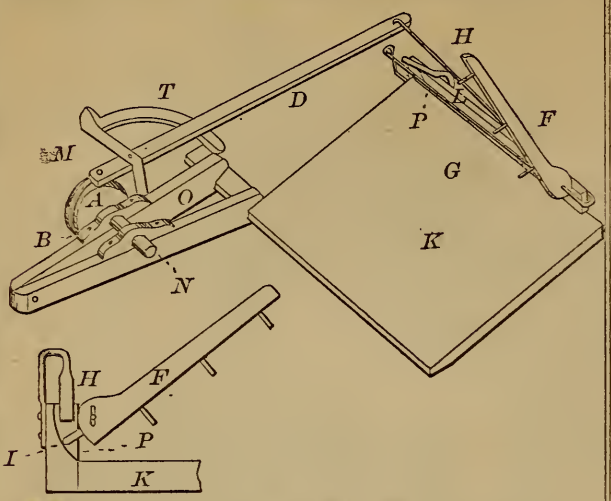
81129—Barnard, Nye & Hewett—*Harvester.*



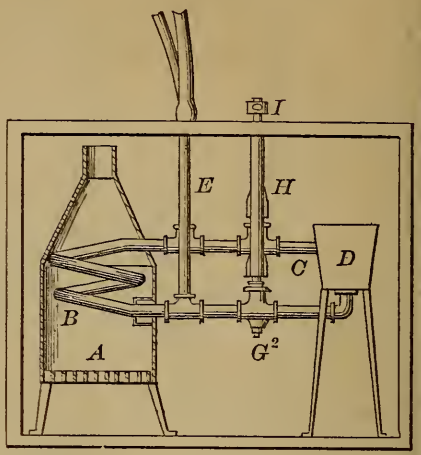
81131—Bowerman & Dart—*Stash Fastening.*



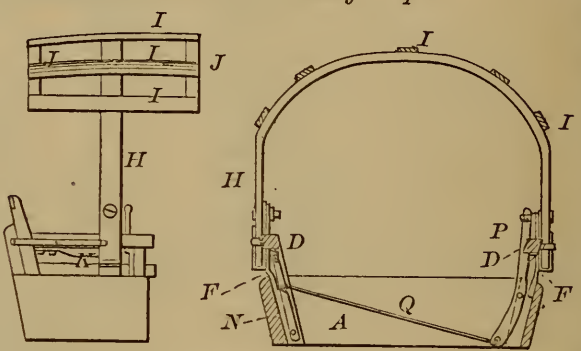
81130—Bowen, Reed & Whelan—*Harvester Rake.*



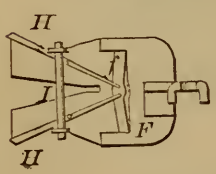
81132—W. A. Brickill—*Feed Water Heater for Steam Fire Engines.*

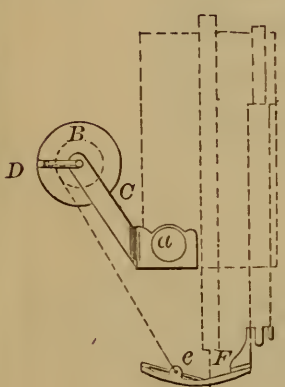


81135—N. G. Burr—*Carriage Top.*

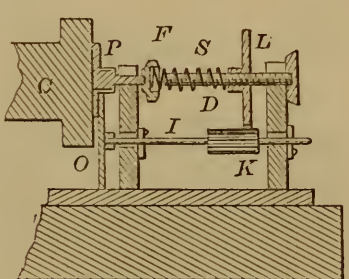


81138—W. Carpenter—*Braiding Attachment for Sewing Machines.*

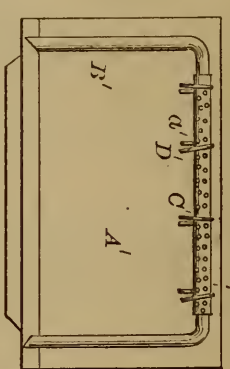




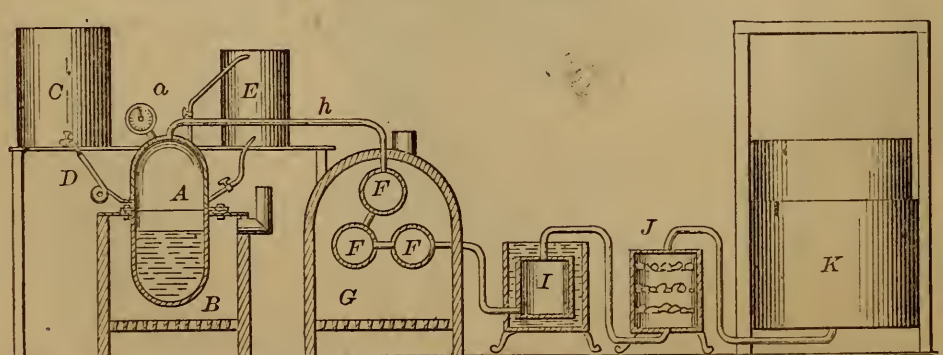
81133—L. C. Briggs—*Let-off for Looms.*



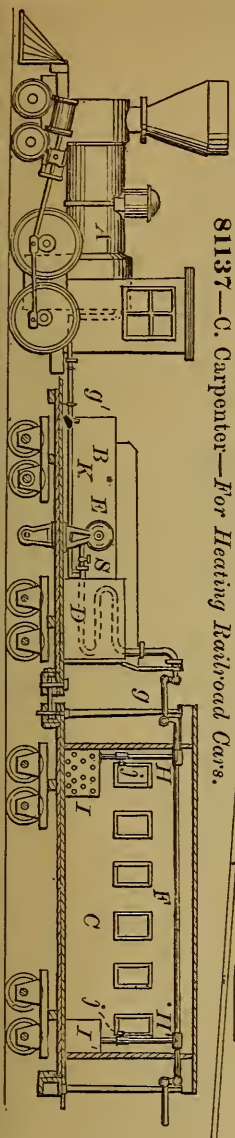
81134—P. M. Burns—*Wash Boiler.*



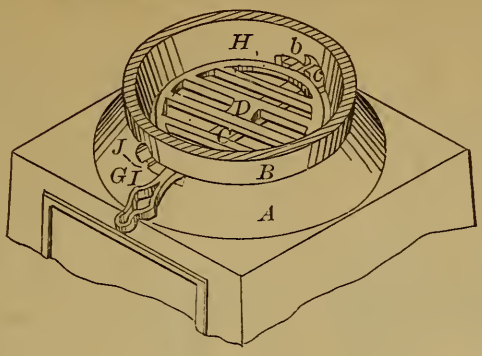
81136—C. Carpenter—*Generating Gas from Petroleum.*

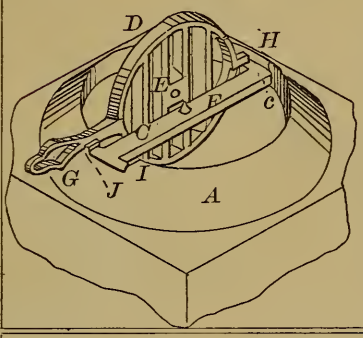


81137—C. Carpenter—*For Heating Railroad Cars.*

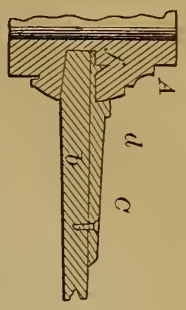


81139—W. Caven—*Stove Grate.*

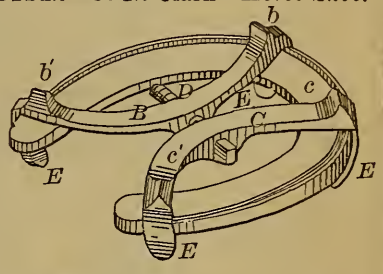


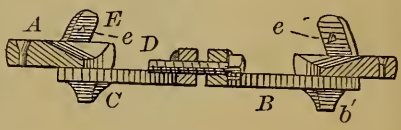


81141—C. Clarke—*Carriage Wheel.*

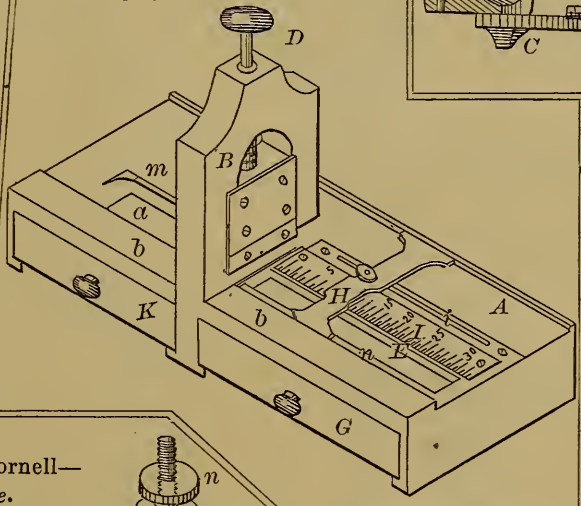


81142—J. N. Clark—*Horse Shoe.*

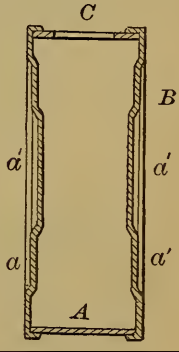




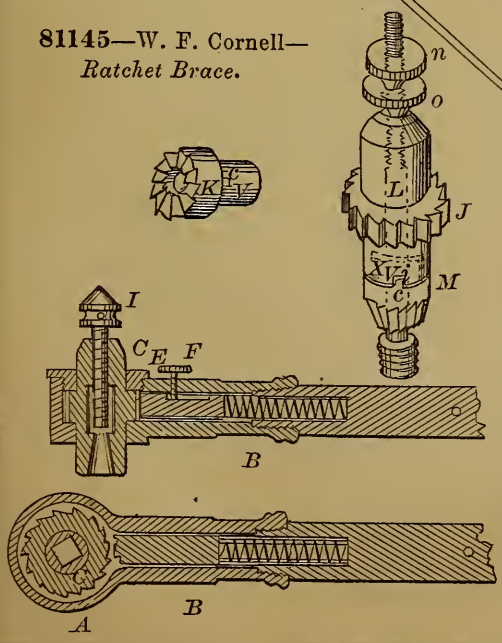
81140—W. E. Clark—*Cutting Printers' Leads.*



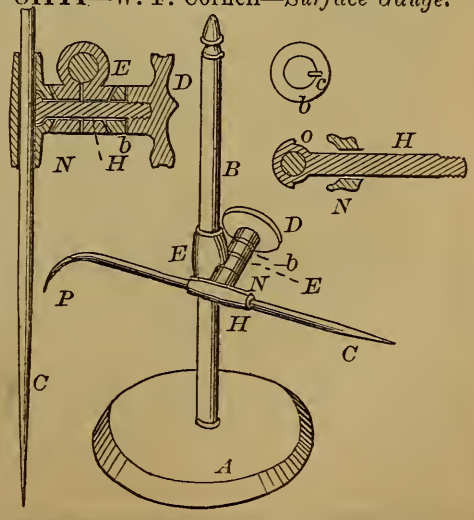
81143—P. Cook—*Sheet Metal Can.*



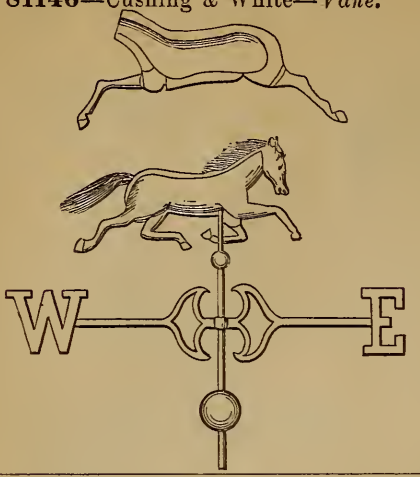
81145—W. F. Cornell—*Ratchet Brace.*



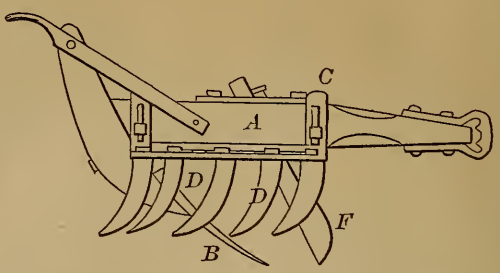
81144—W. F. Cornell—*Surface Gauge.*



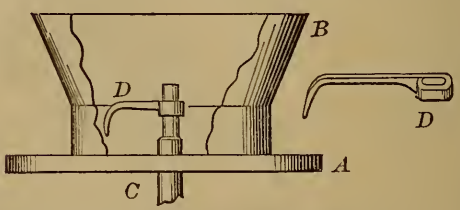
81146—Cushing & White—*Vane.*



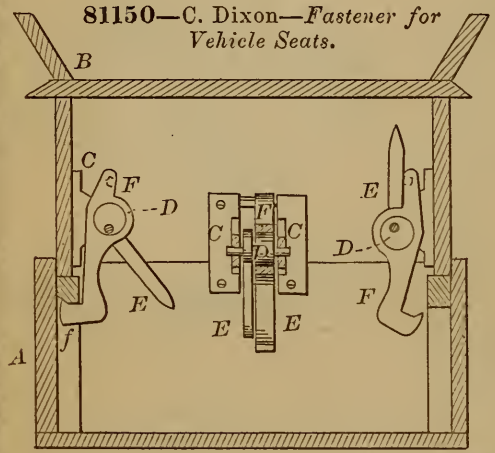
81148—J. H. Dickson—*Plow.*



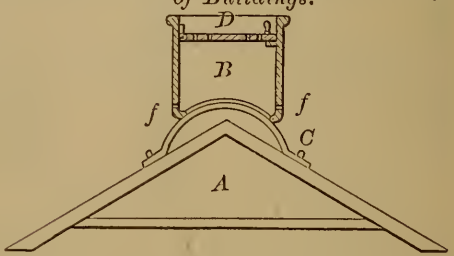
81156—F. G. & E. A. Floyd—*Stirrer for Seed Sowers.*



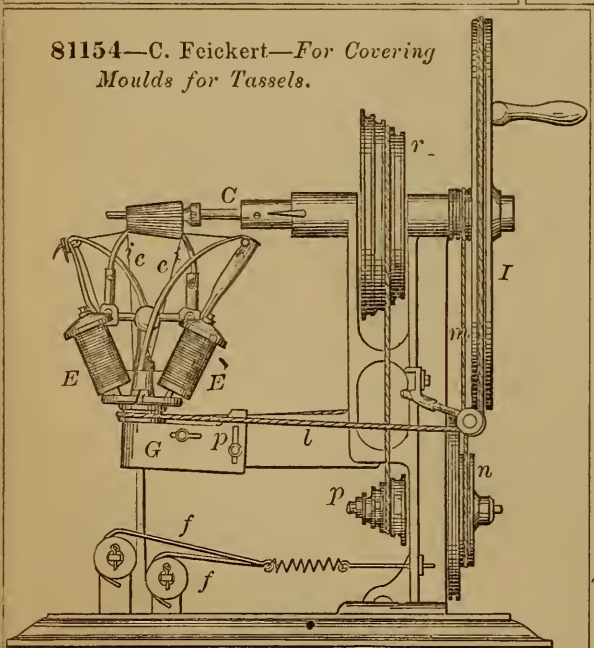
81150—C. Dixon—*Fastener for Vehicle Seats.*



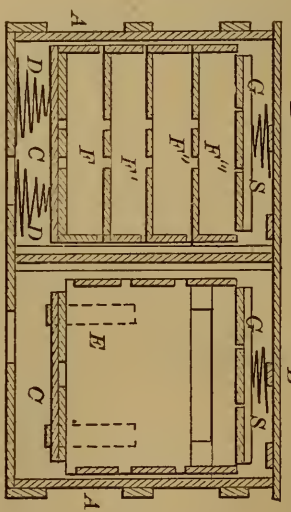
81147—I. W. Dean—*Preserving the Roofs of Buildings.*



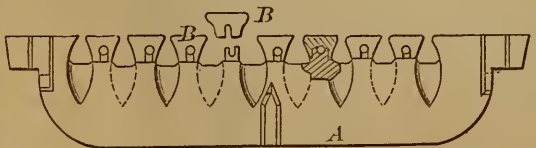
81154—C. Feickert—*For Covering Moulds for Tassels.*



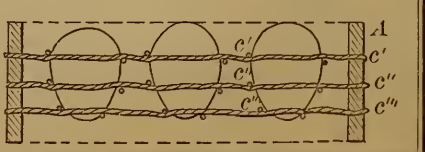
81153—W. G. Goodale—*Fruit Crate.*



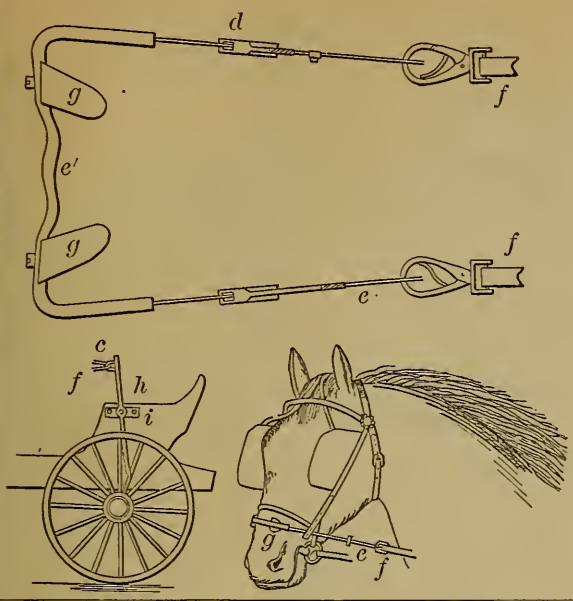
81155—A. C. Fletcher—*Grate Bar.*



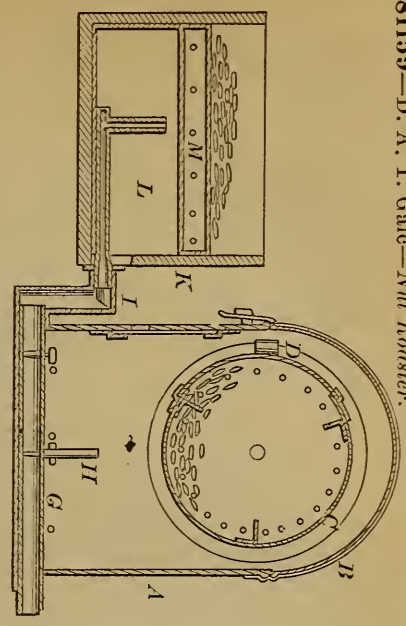
81151—G. Dorn—*Egg Carrier.*



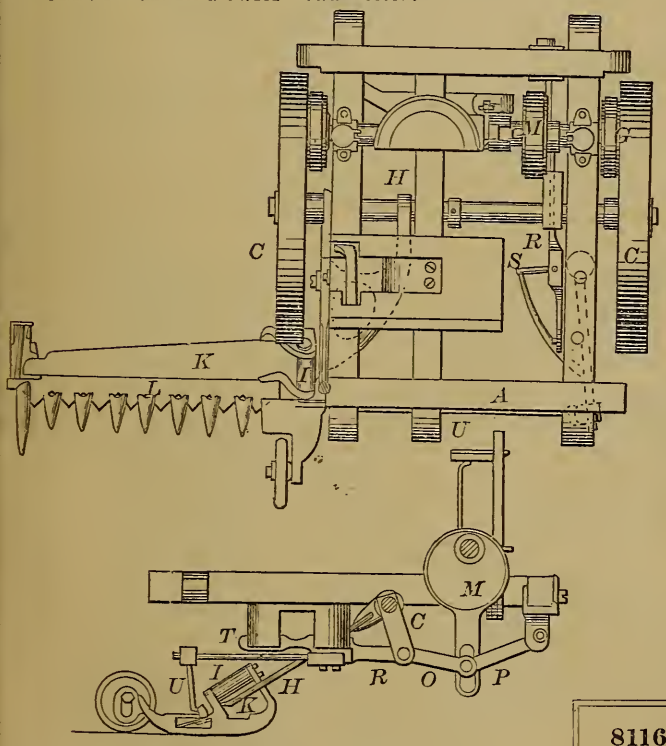
81157—N. Fountain—*For Stopping Horses.*



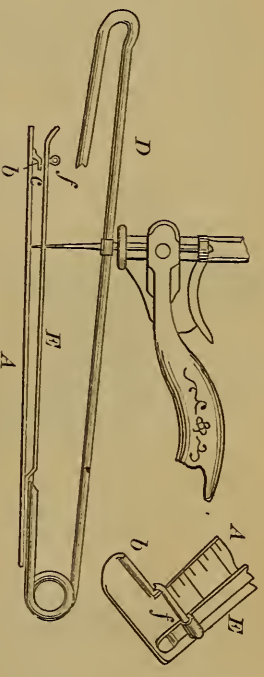
81159—D. A. T. Gale—*Nut Roaster.*



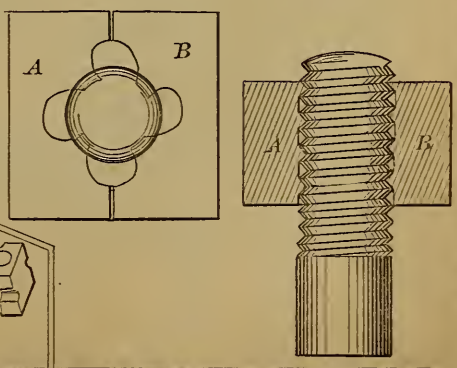
81158—H. E. Fowler—*Harvester.*



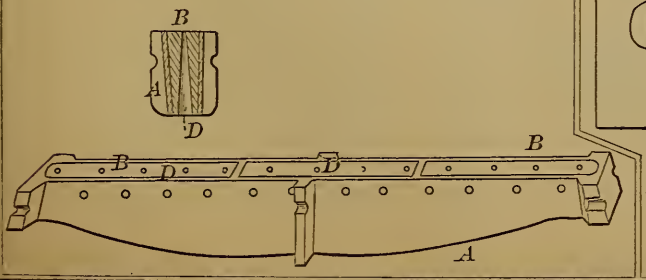
81160—H. C. Goodrich—*Tuck Creaser for Sewing Machines.*



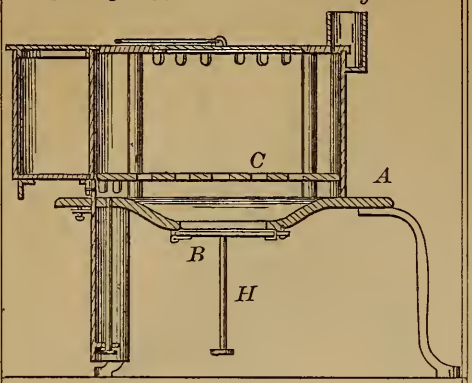
81162—G. Grubel—*Tap and Die.*

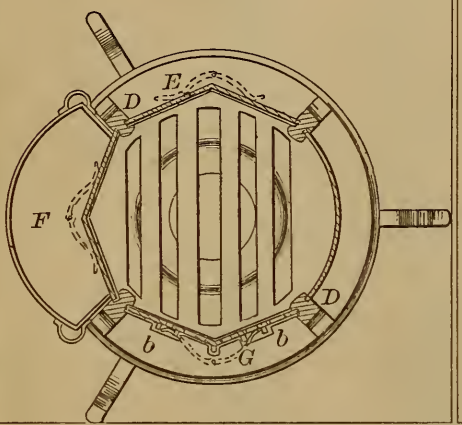


81161—Griswold & Thomson—*Grate Bar.*

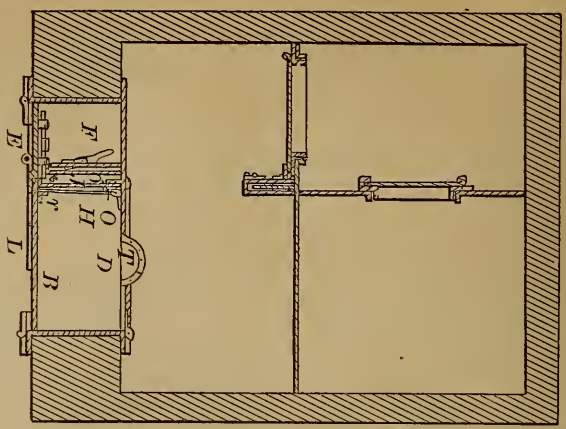


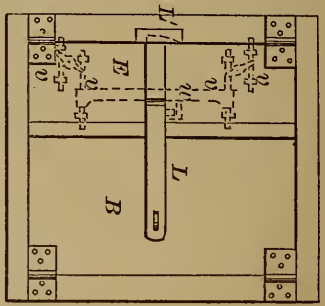
81163—O. B. Hale—*Cooking Stove.*



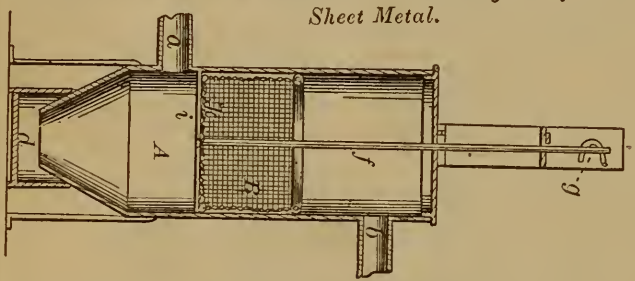


81165—B. F. Haugh—*Bolt for Prison Doors.*



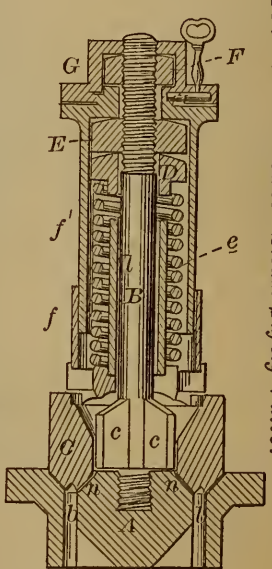


81164—Harmon & Sturdevant—*Removing Tin from Sheet Metal.*

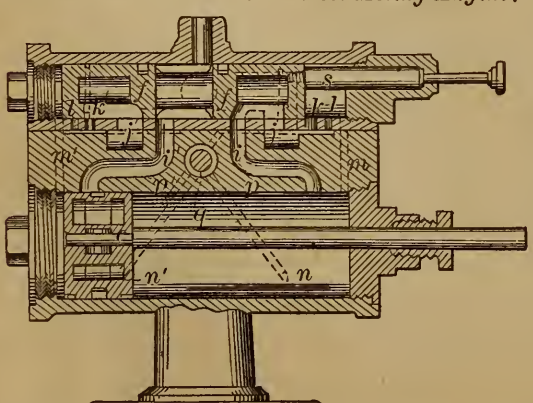


81166—J. A. Heald—*Fork, Shovel and Hoe.*

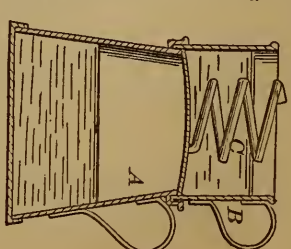
81167—H. W. Hewet—*Steam Safety Valve.*



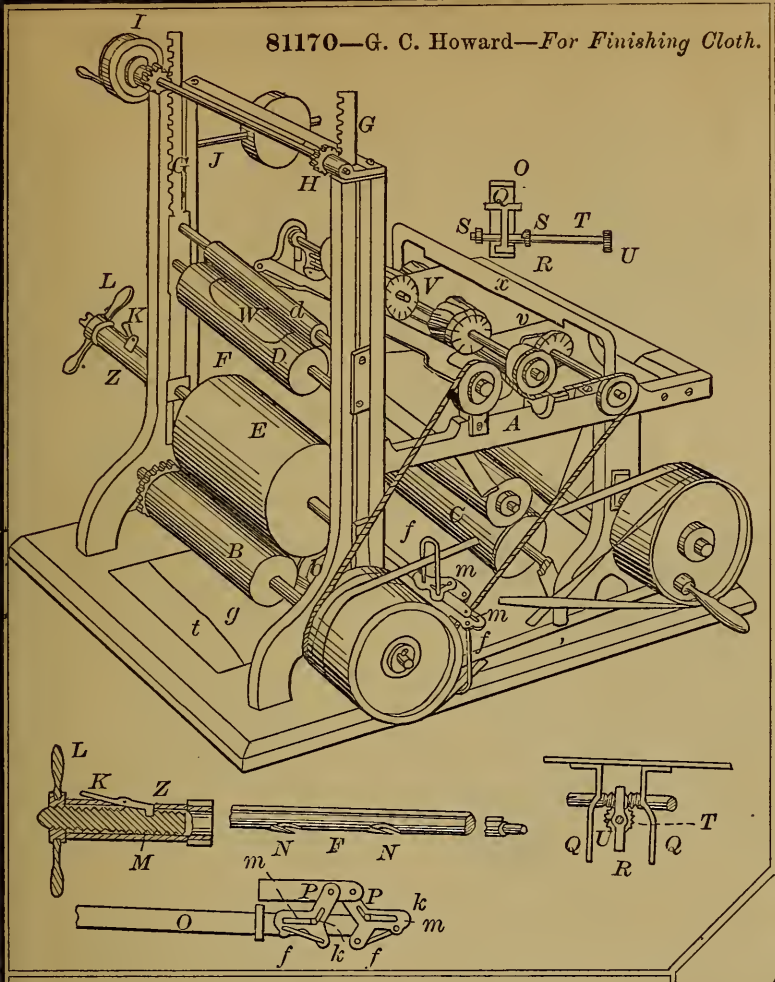
81168—W. D. Hooker—*Direct Acting Engine.*



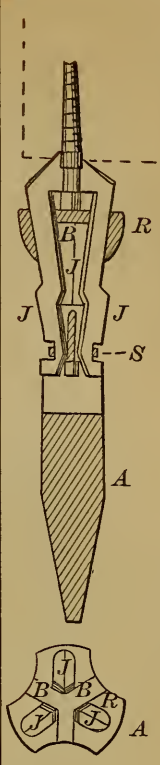
81169—N. Hotz—*Coffee Pot.*



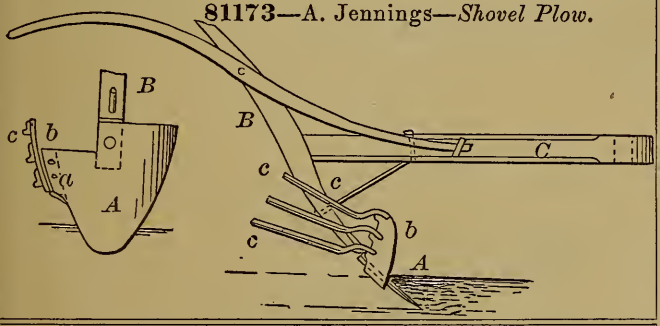
81170—G. C. Howard—*For Finishing Cloth.*



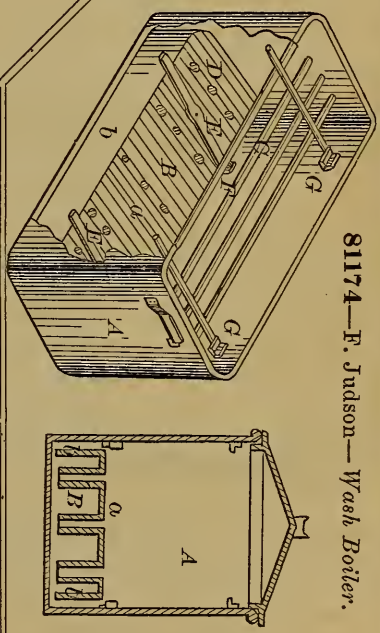
81171—P. N. Jacobus—*Screw Driver Counter Sink.*



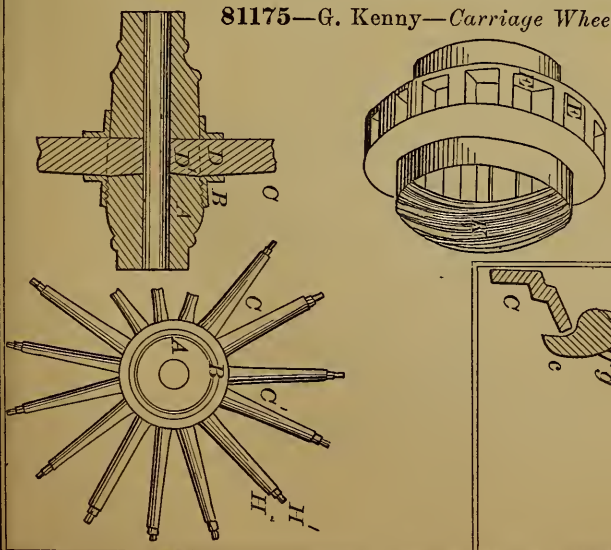
81173—A. Jennings—*Shovel Plow.*



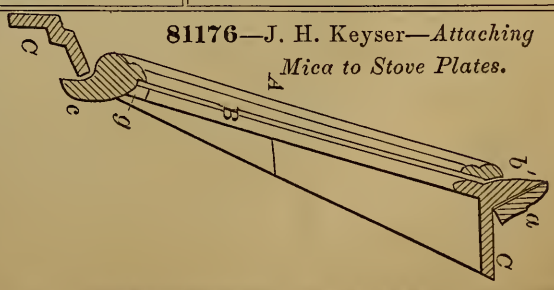
81174—F. Judson—*Wash Boiler.*



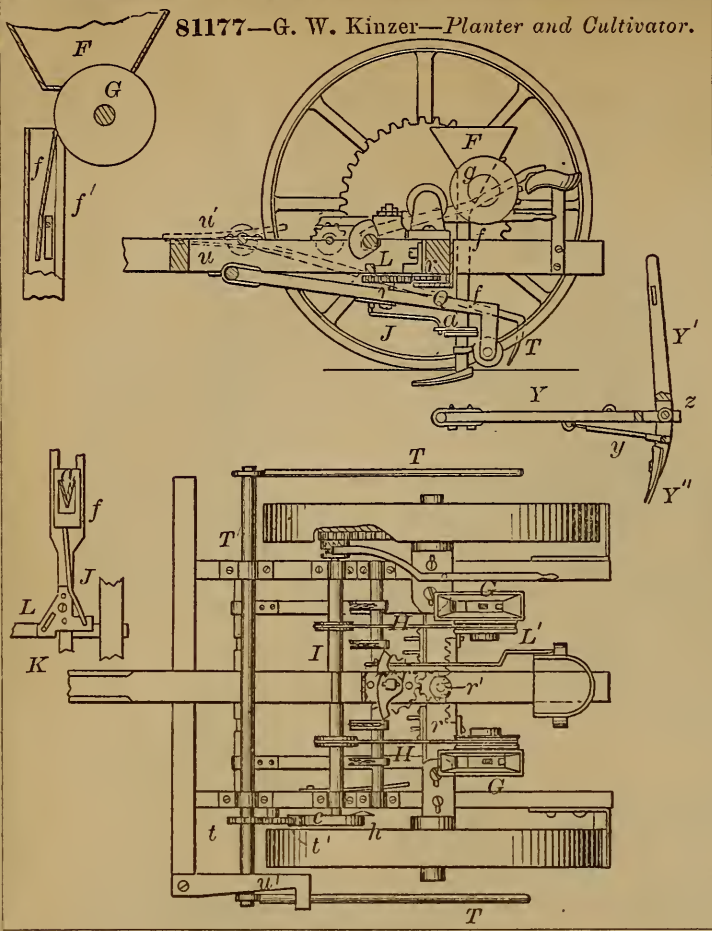
81175—G. Kenny—*Carriage Wheel.*



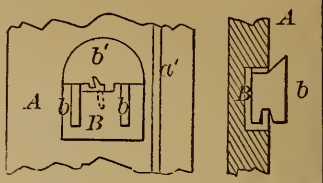
81176—J. H. Keyser—*Attaching Mica to Stove Plates.*



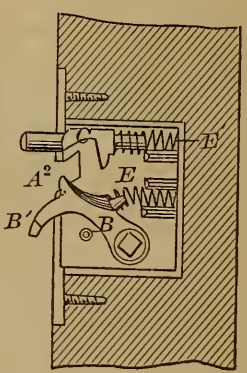
81177—G. W. Kinzer—*Planter and Cultivator.*



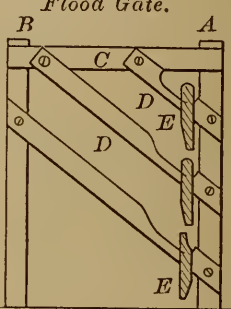
81178—F. Kramer—*Sash Fastener.*



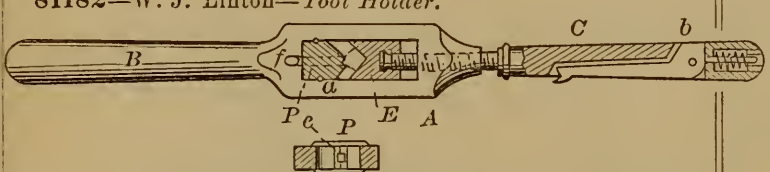
81179—D. P. Lacy—*Sash Holder.*



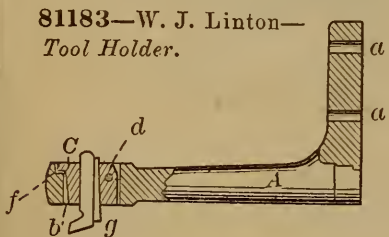
81180—J. Leatherman—*Flood Gate.*



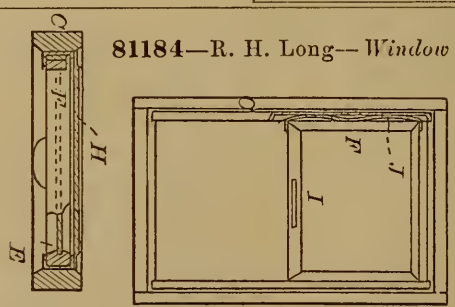
81182—W. J. Linton—*Tool Holder.*



81183—W. J. Linton—*Tool Holder.*

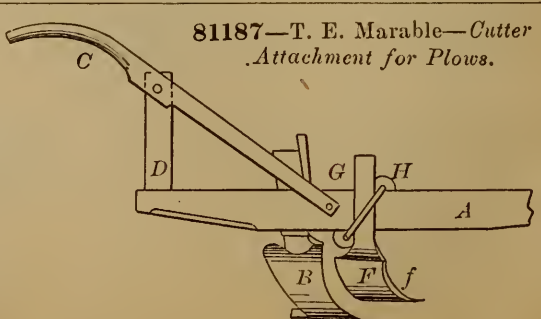


81184—R. H. Long—*Window Ventilator.*

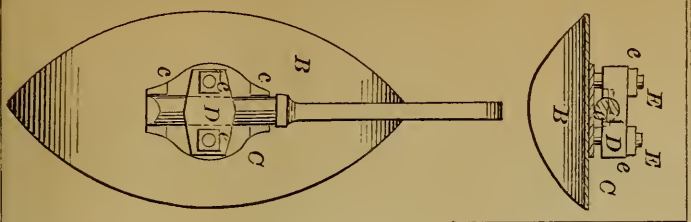


81186—E. B. Manning—*Tea and Coffee Pot.*

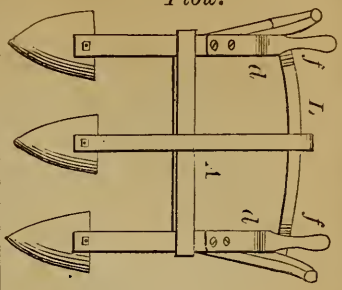
81187—T. E. Marable—*Cutter Attachment for Plows.*



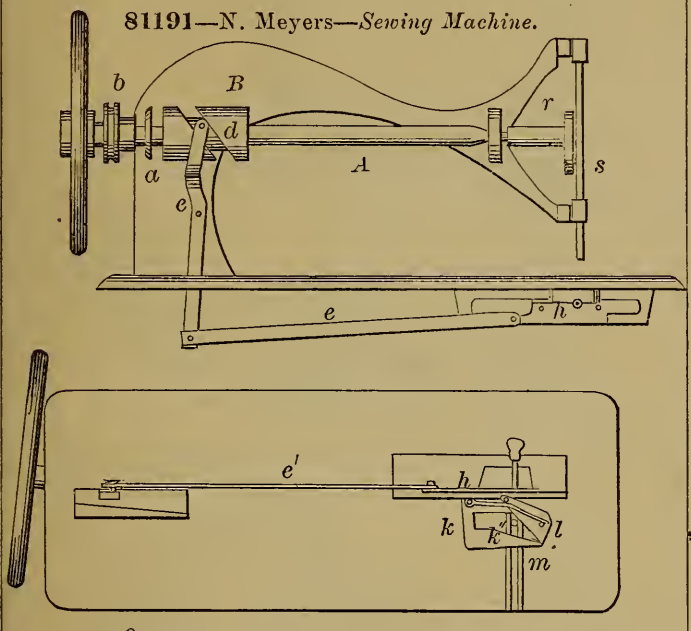
81188—B. F. McCollester—*Shovel Plow.*

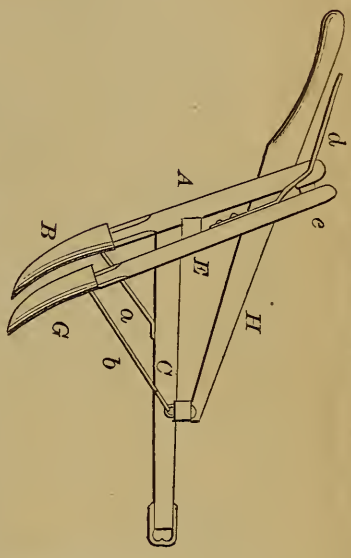


81189—J. Meyer—*Shovel Plow.*

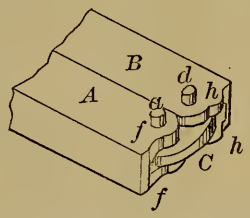


81191—N. Meyers—*Sewing Machine.*

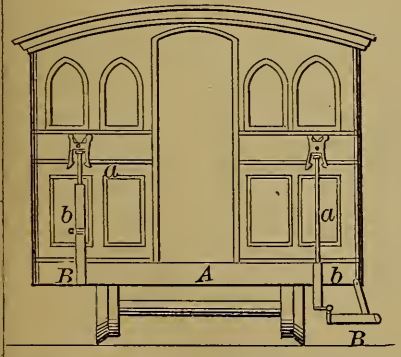




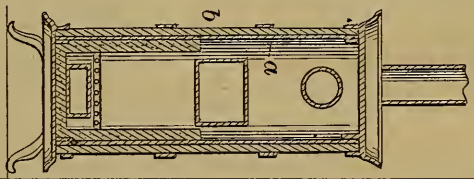
81193—F. B. Morse—*Stump Joint for Carriages.*



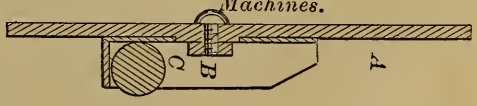
81194—W. Neumann—*Car Step.*



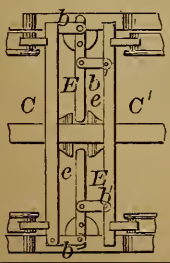
81197—Oertley & Fendrich—*Coal Stove.*

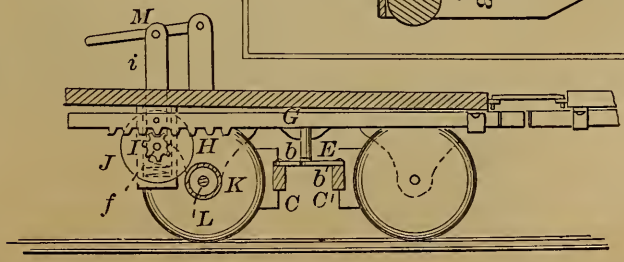


81195—D. Newton—*Friction Brake for Sewing Machines.*

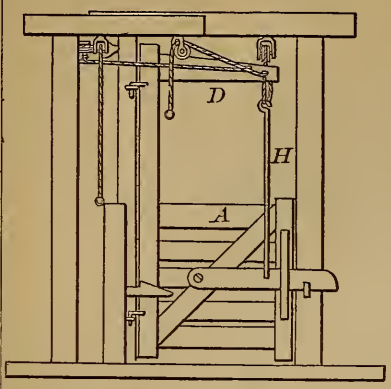


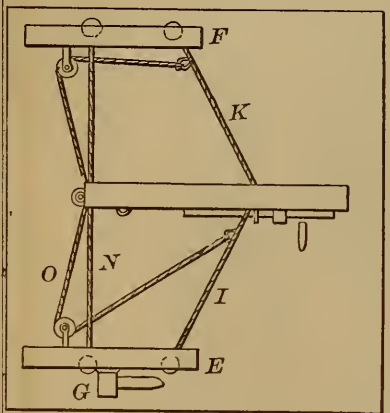
81192—G. L. Miller—*Car Brake.*



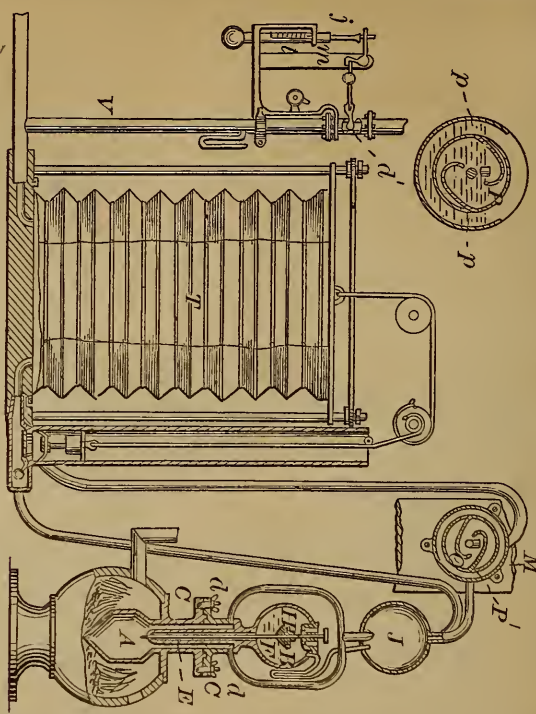


81196—W. E. Nichols—*Gate.*

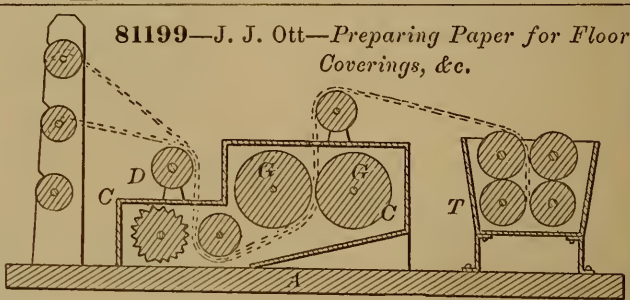




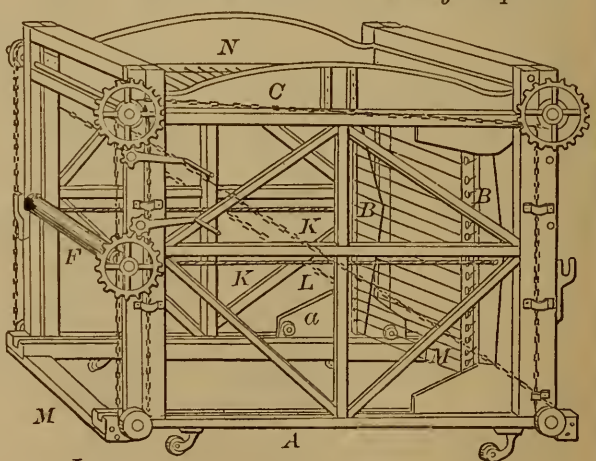
81198—Ofeldt & Almqvist—*Manufacture of Illuminating Gas.*

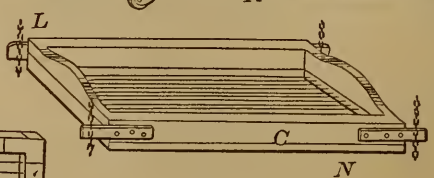


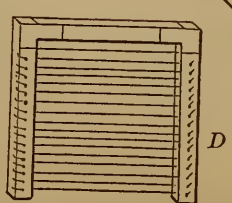
81199—J. J. Ott—*Preparing Paper for Floor Coverings, &c.*



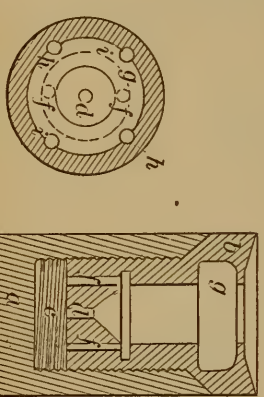
81200—Palmer & Bush—*For Cutting Soap.*



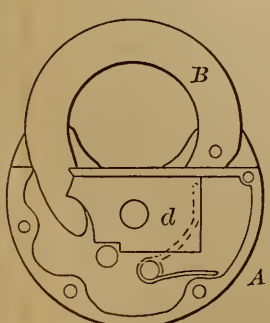




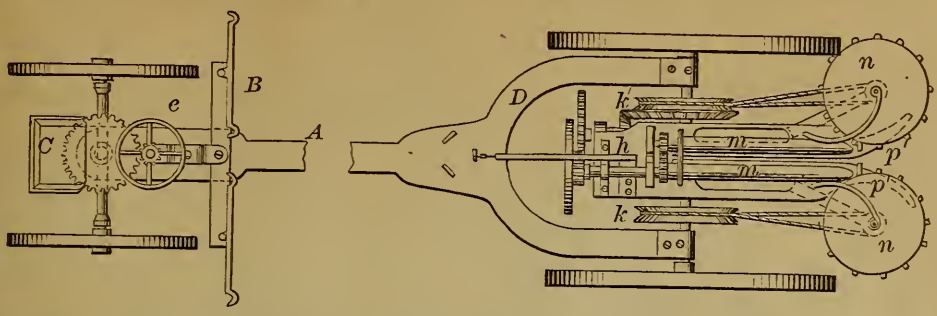
81201—S. L. Pattee—*Spindle Step.*



81203—O. S. Pease—*Seal Lock.*



81202—S. Patton—*Corn Harvester.*



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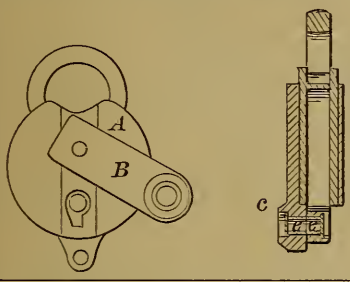
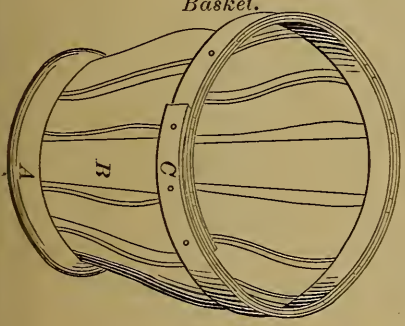
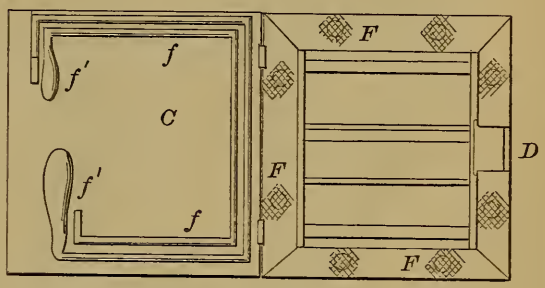
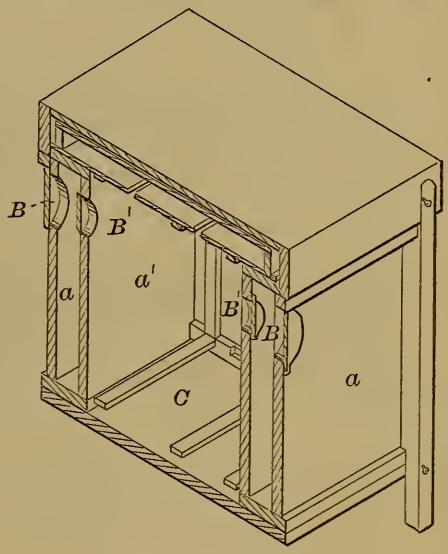


81205—Percival & True—*Fruit Basket.*

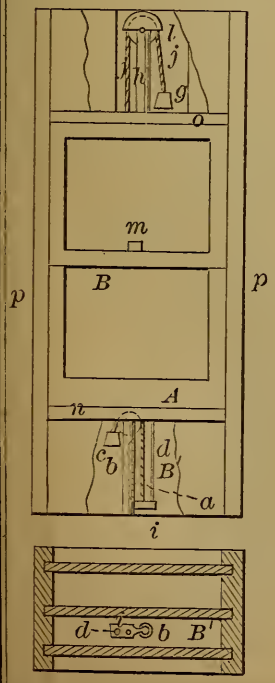


81206—J. F. Pool—*Beehive.*

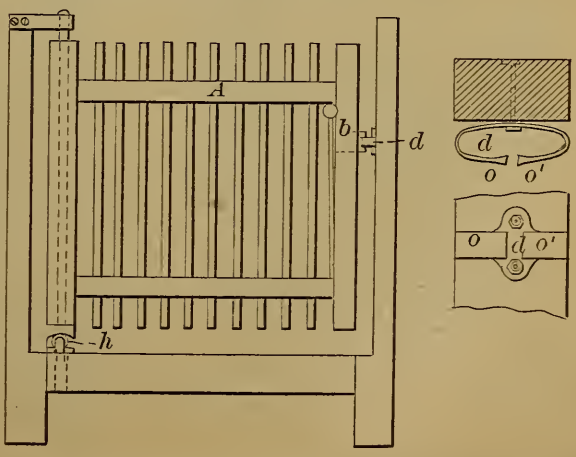




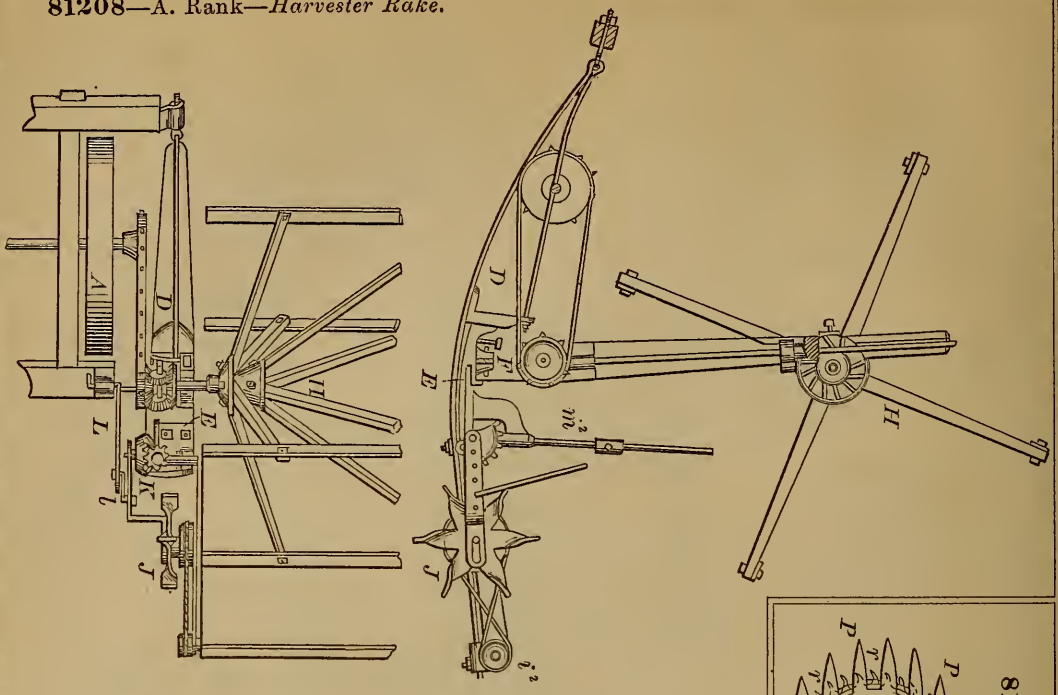
81207—W. Randall—*Seal Supporter.*



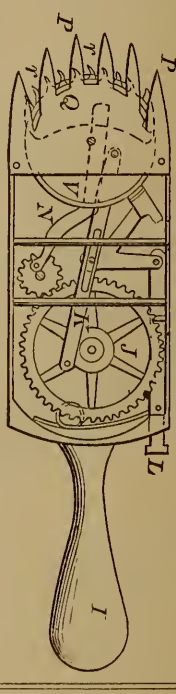
81209—Rasar & Mayes—*Gate Latch.*



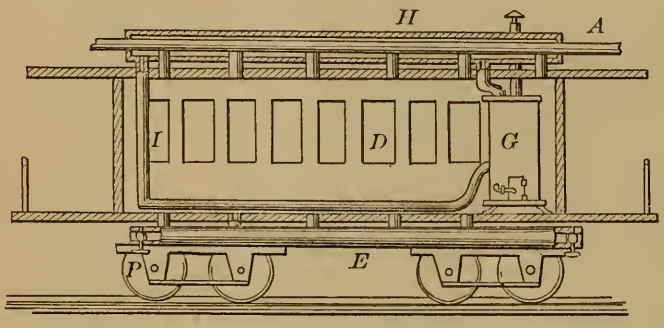
81208—A. Rank—*Harvester Rake.*



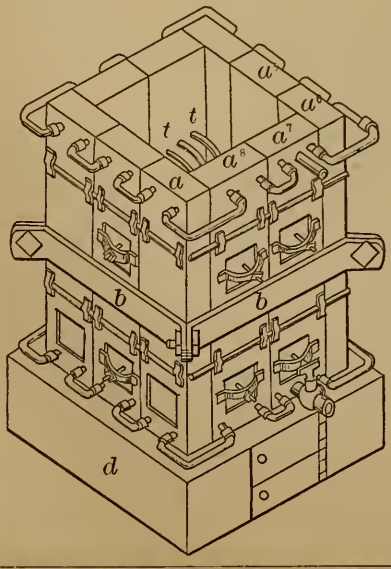
81210—H. A. Reid—*Sheep Shearing Machine.*

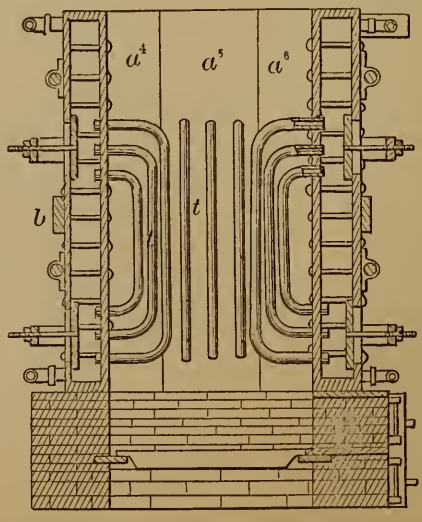


81211—E. L. Roberts—*For Heating Railroad Cars.*

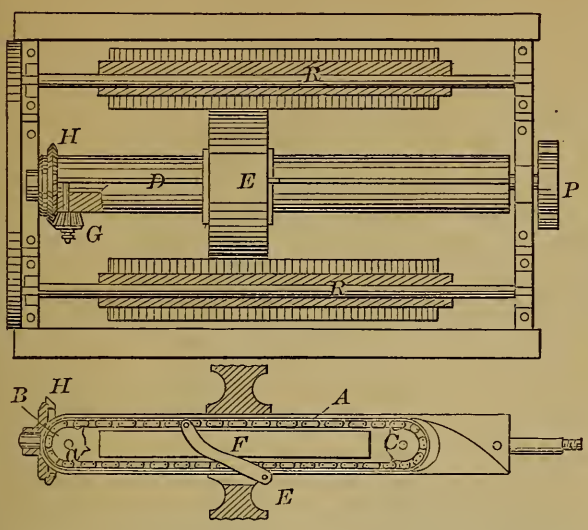


81212—R. E. Rogers—*Steam Generator.*

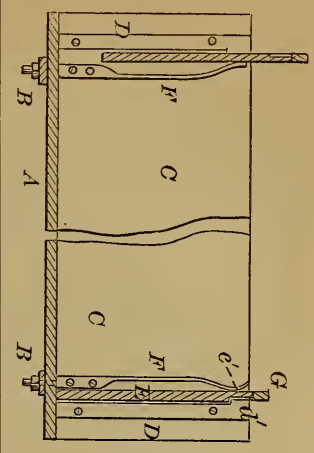




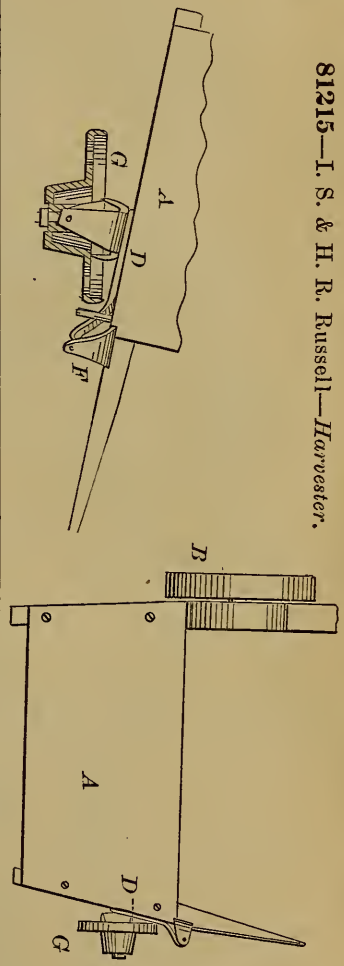
81213—B. S. Roy—*Card Grinder.*



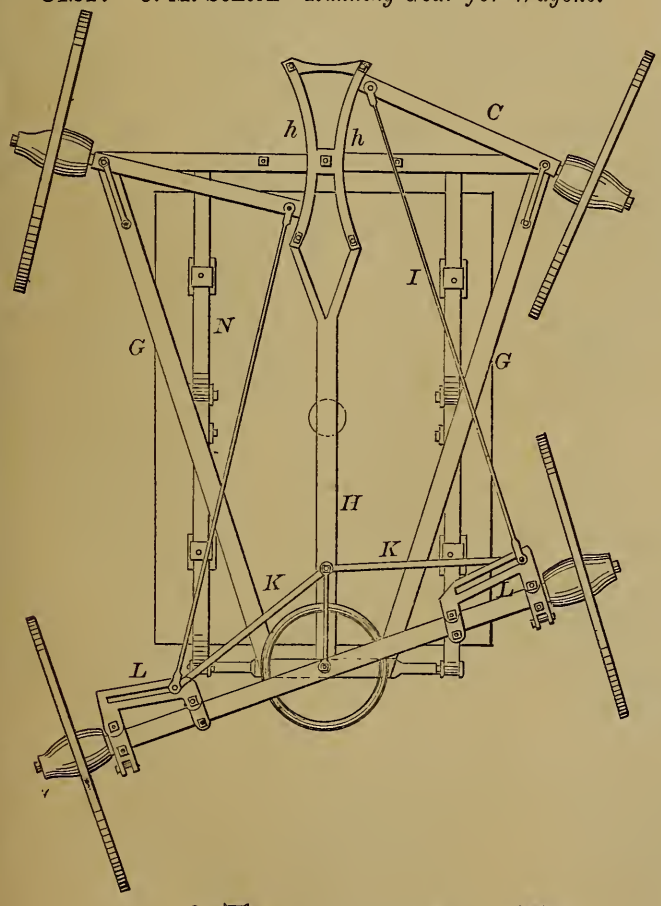
81216—Seitz & Armold—*Wagon.*

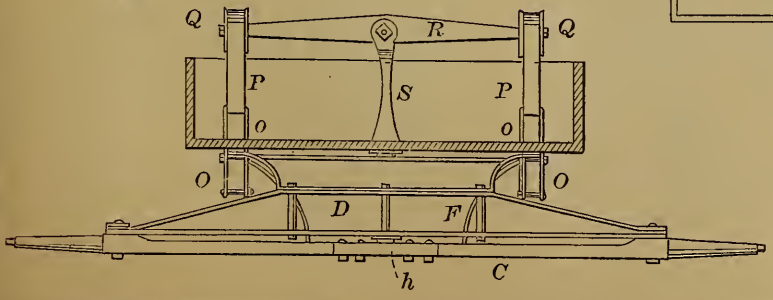


81215—I. S. & H. R. Russell—*Harvester.*

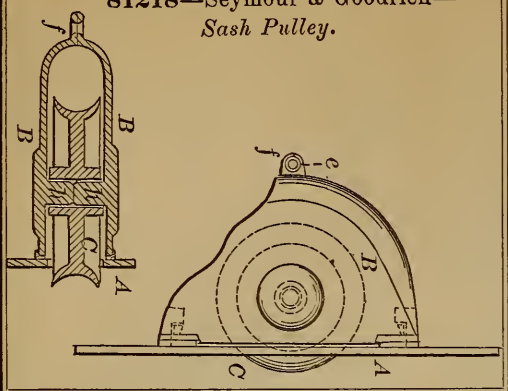


81217—C. M. Sexton—*Running Gear for Wagons.*

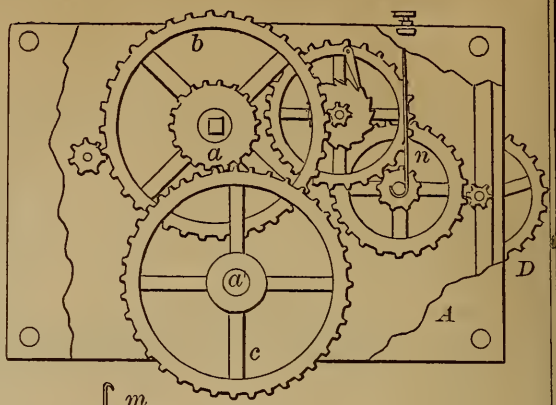


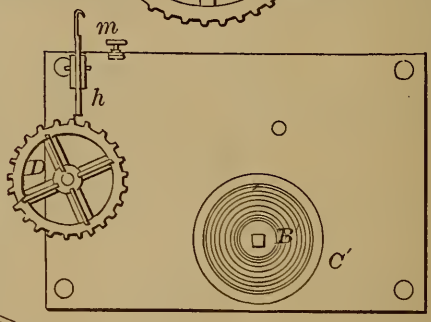


81218—Seymour & Goodrich—*Sash Pulley.*



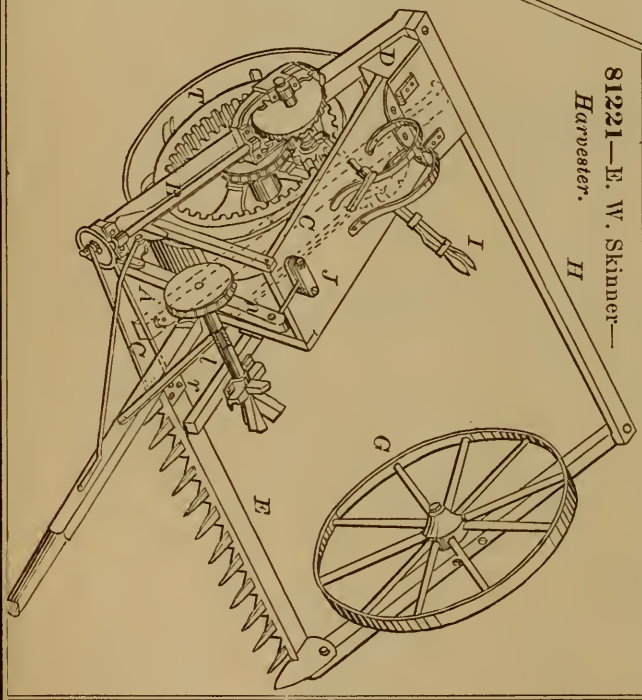
81219—E. Shiver—*Sewing Machine Motor.*



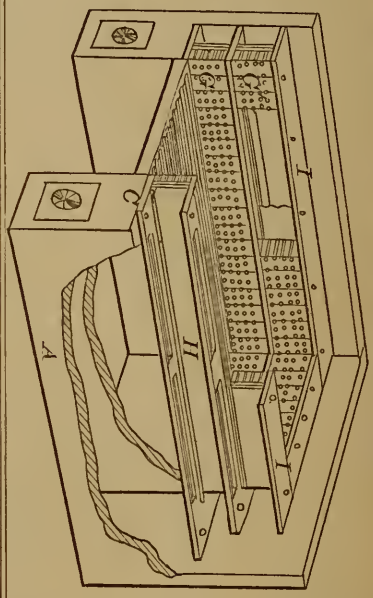


81220—A. Simons—*Trellis for Propagating Bees.*

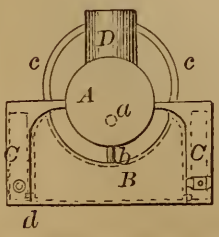
81221—E. W. Skinner—*Harvester.*

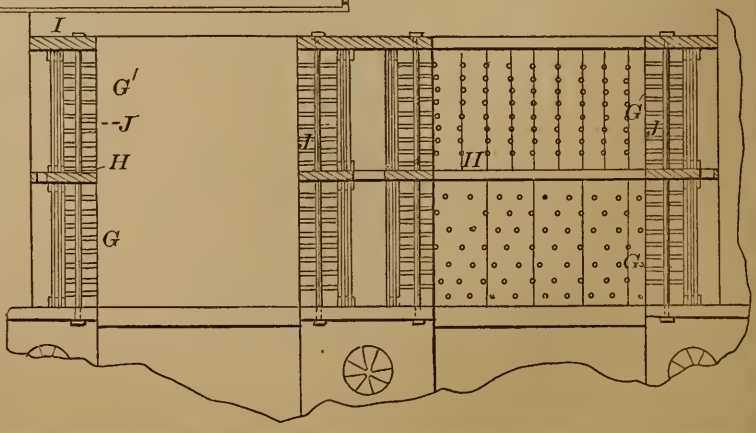


81222—S. Smith—*Steam Boiler Furnace.*

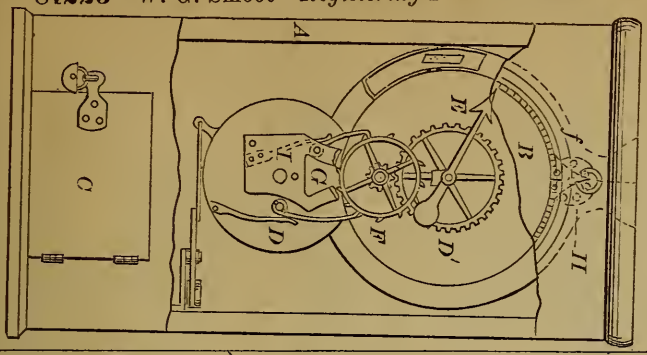


81225—J. Sutliff—*Steam Generator*

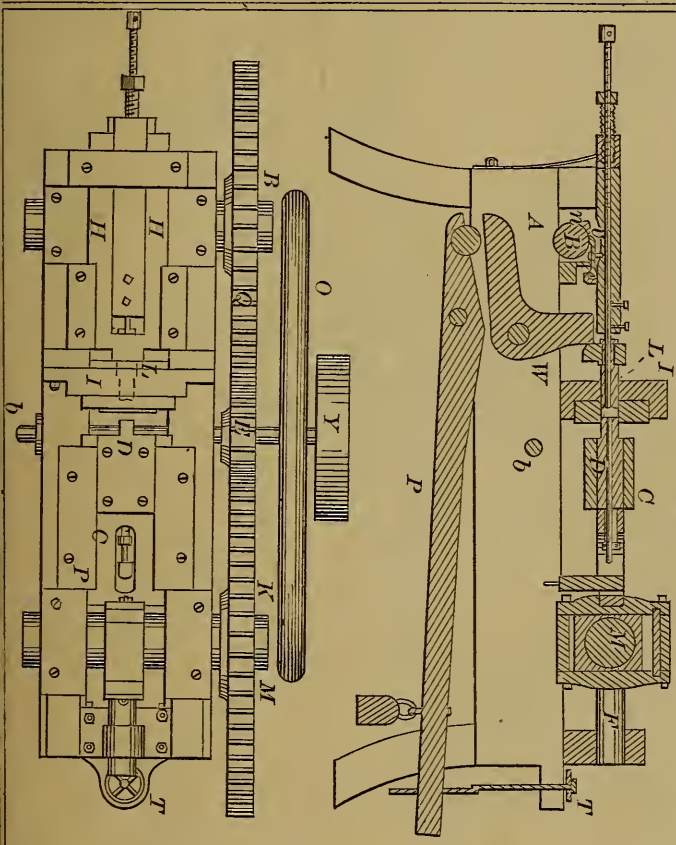




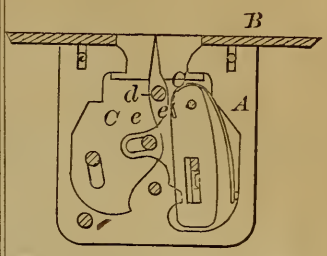
81223—W. G. Smoot—*Registering Fare Receiver.*



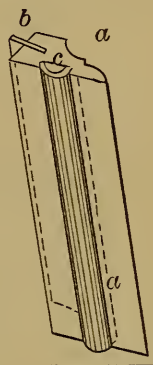
81224—J. H. Sternbergh—*Making Nuts.*



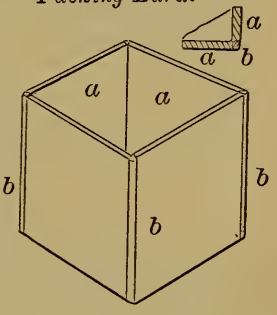
81226—J. Thielemann—*Piano Lock.*



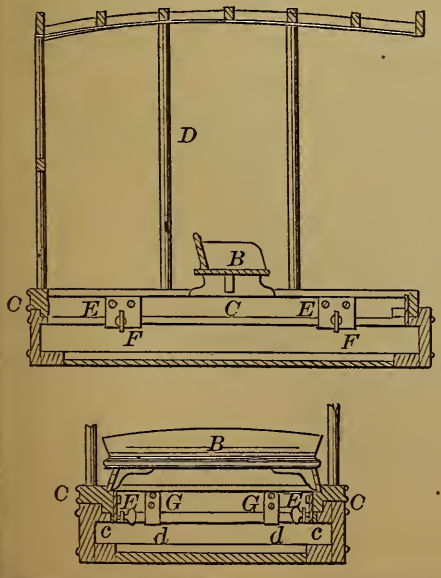
81228—E. S. Torrey—*Weather Strip.*



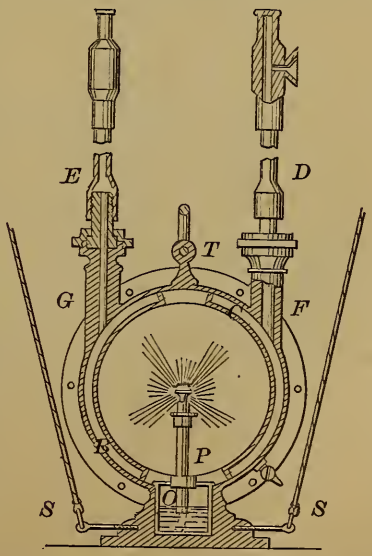
81229—C. L. Tucker—*Cementing Box for Packing Lard.*



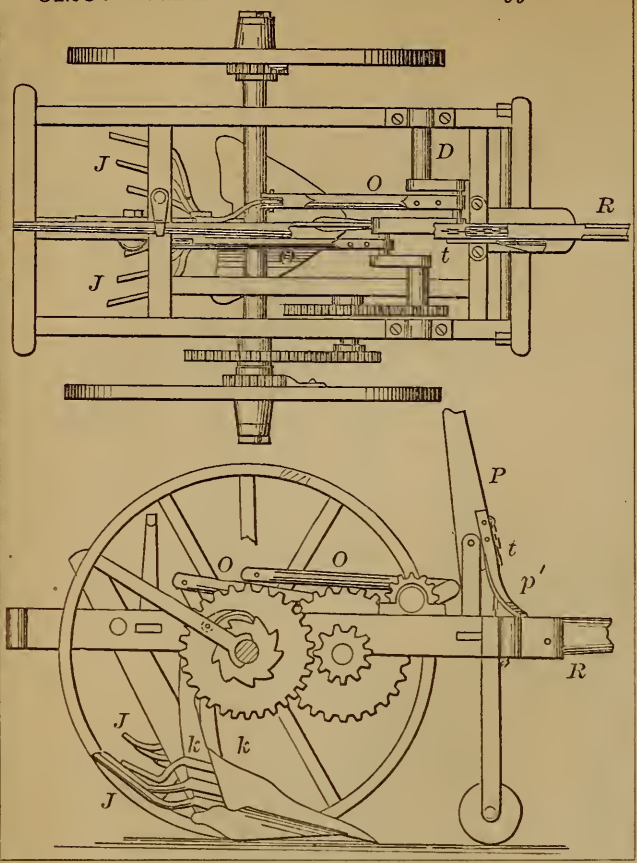
81227—S. Titcomb—*Carriage.*



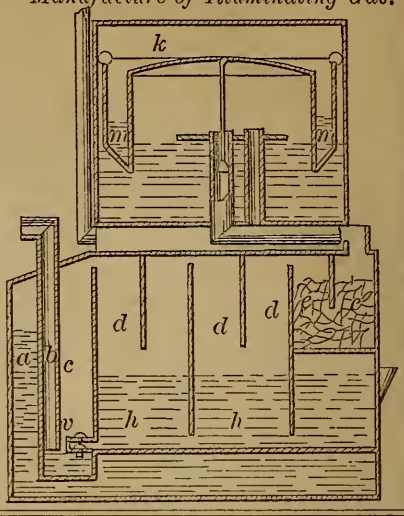
81231—M. V. Weide—*Submarine Lantern.*



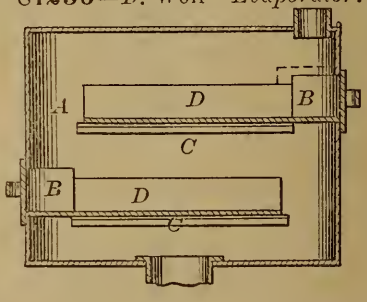
81230—Vanderveer & Riddel—*Potato Digger.*



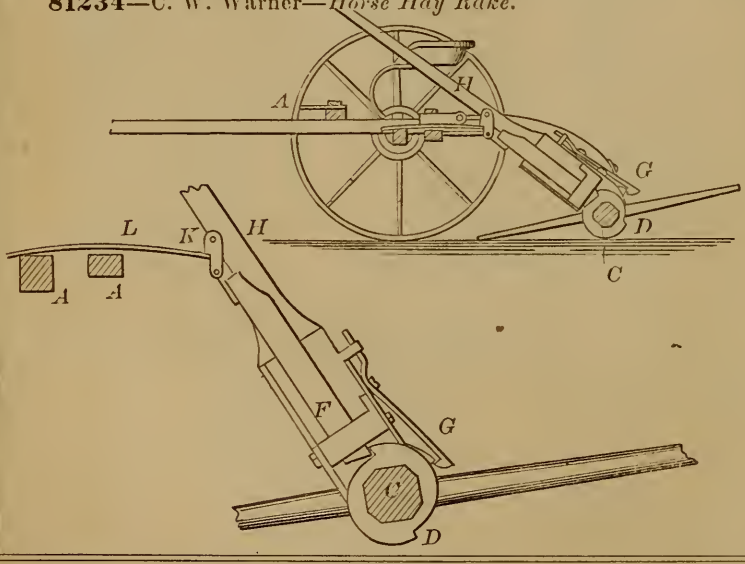
81232—P. H. V. Weyde—*Manufacture of Illuminating Gas.*



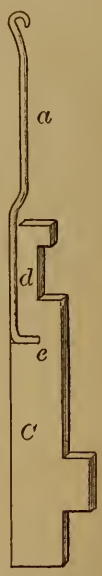
81236—D. Wolf—*Evaporator.*



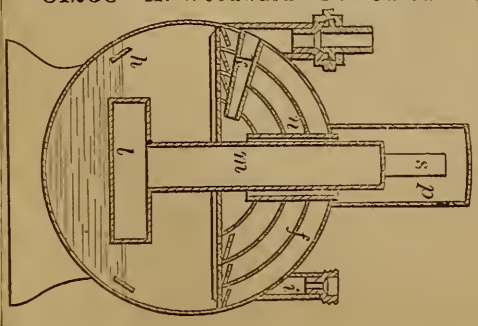
81234—C. W. Warner—*Horse Hay Rake.*

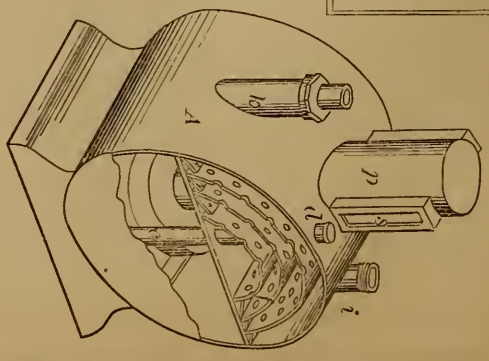


81235—H. J. Wickham—*Jack for Knitting Needle.*

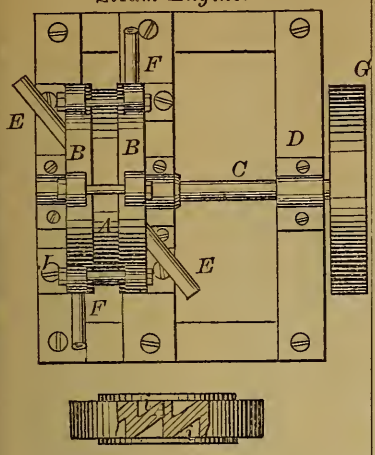


81238—H. Woodward—*For Carburetting.*

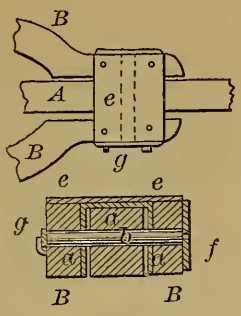




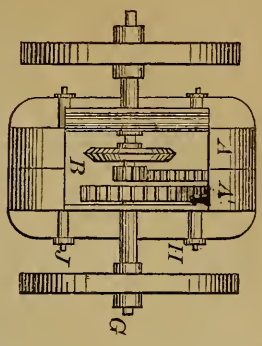
81239—J. Woody—*Rotary Steam Engine.*



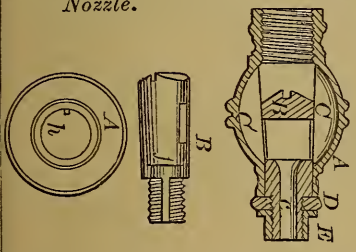
81240—J. M. Wynn—*Wagon Coupling.*



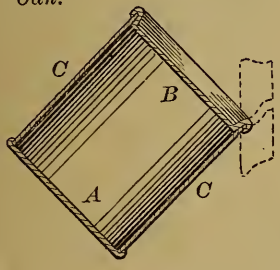
81241—G. W. N. Yost—*Harvester.*



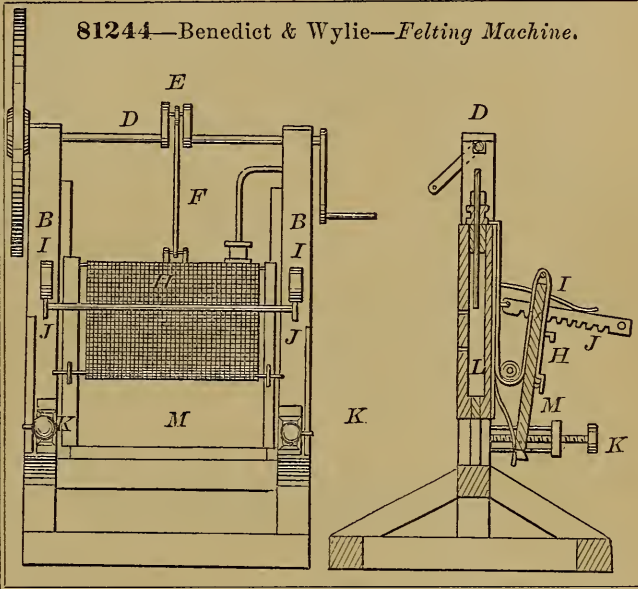
81242—F. S. Babbit—*Pipe Nozzle.*



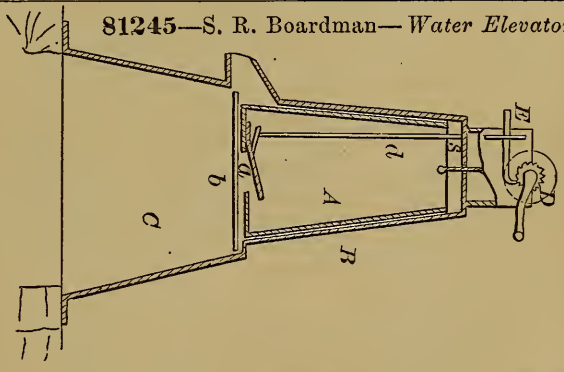
81243—C. Barry—*Air Tight Can.*



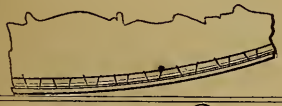
81244—Benedict & Wylie—*Felting Machine.*



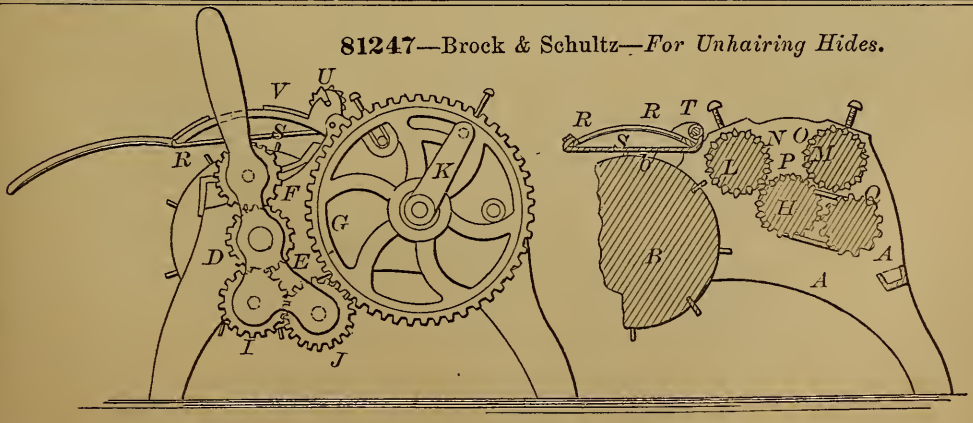
81245—S. R. Boardman—*Water Elevator.*



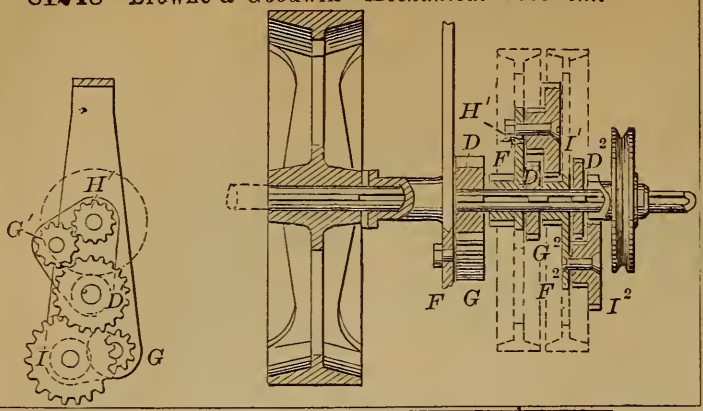
81246—C. F. Bosworth—*Attaching Wires to Hat Brims.*



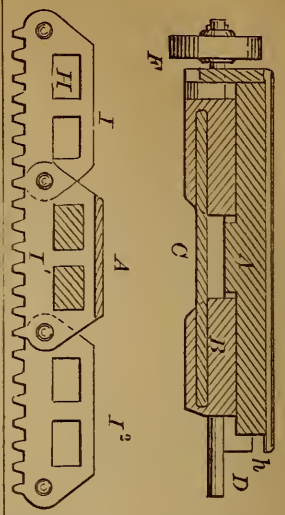
81247—Brock & Schultz—*For Unhairing Hides.*



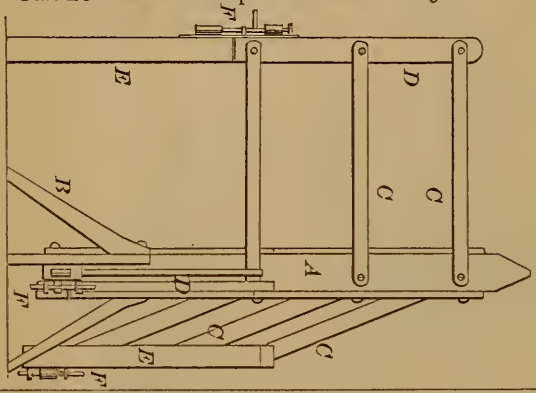
81248—Browne & Goodwin—*Mechanical Movement.*



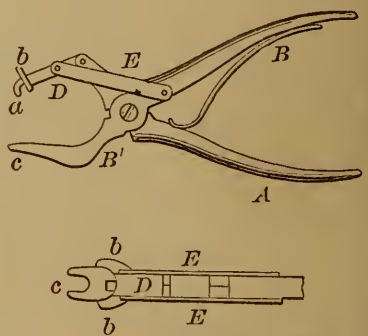
81251—J. Casho—*Link for Endless Chains.*



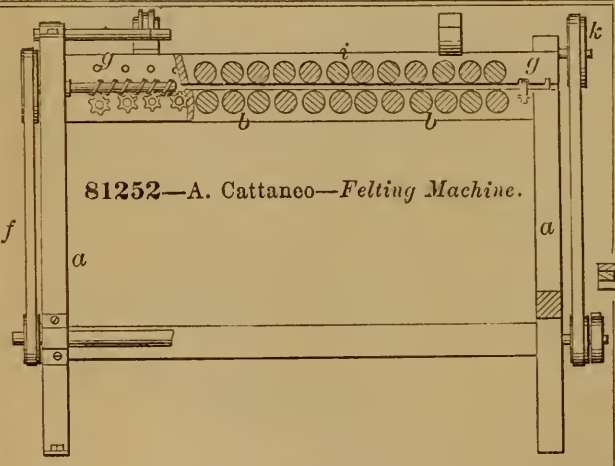
81249—M. T. Campbell—*Clothes Dryer.*



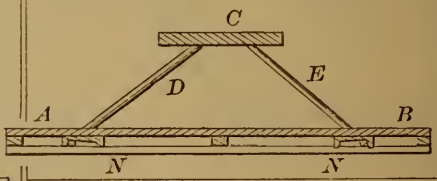
81250—E. Card—*Shoe Buttoner.*



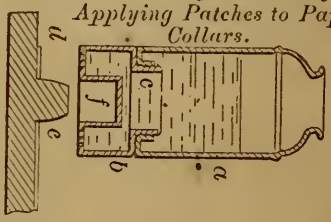
81252—A. Cattaneo—*Felting Machine.*



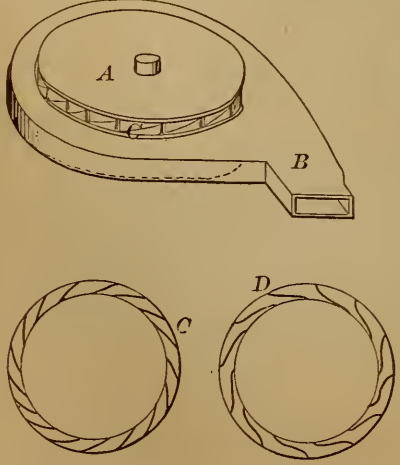
81253—W. R. Clough—*Paper File.*



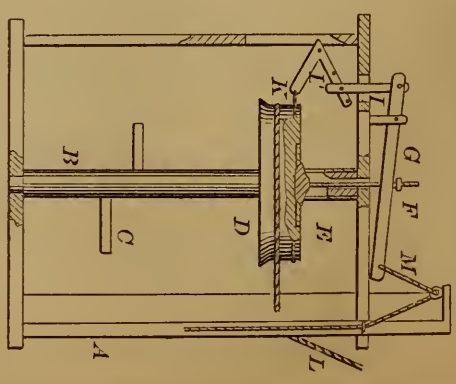
81255—Courtney & Redmayne—*Applying Patches to Paper Collars.*



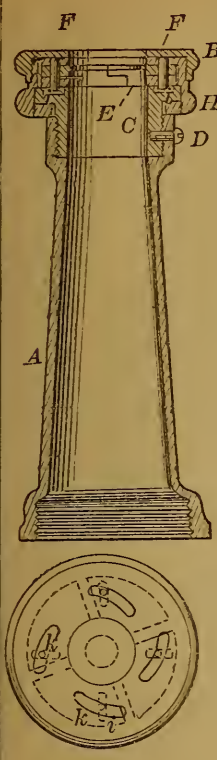
81254—C. S. Corsett—*Water Wheel.*



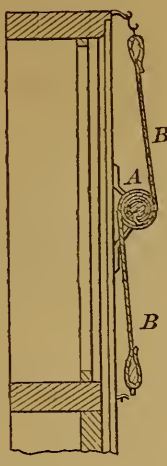
81256—W. W. Crapster—*Hoisting Apparatus.*



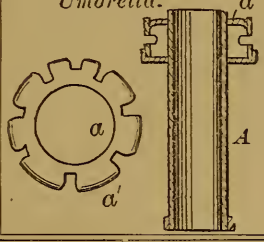
81257—J. A. Cushman—*Hose Pipe Nozzle.*



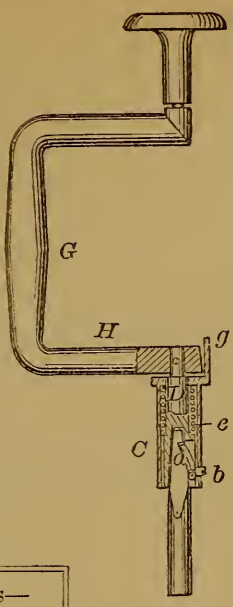
81258—J. David—*Curtain Fixture.*



81259—A. G. Davis—*Umbrella.*

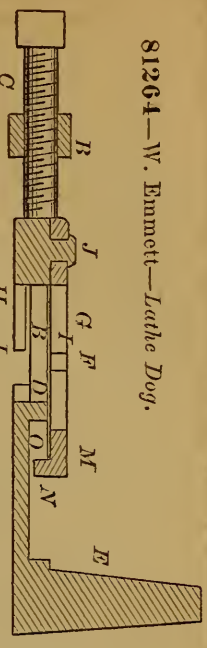


81260—S. W. Davis—*Bit Stock.*

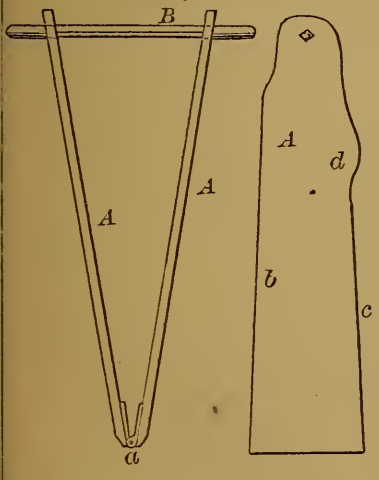


81261—Davison & Lorton—*Chamber Cover.*

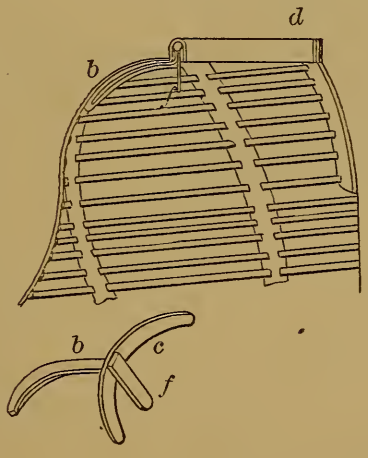
81264—W. Emmett—*Lathe Dog.*



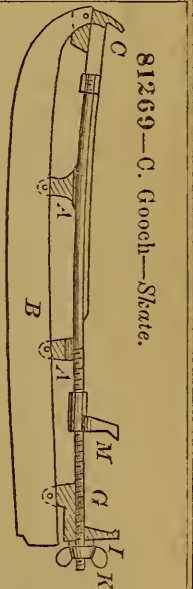
81263—J. Dyson—*Frame for Stretching Drawers.*



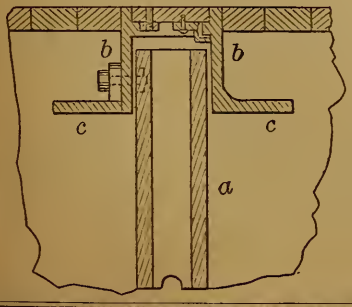
81262—R. B. Duncan—*Bustle Attachment for Skirts.*



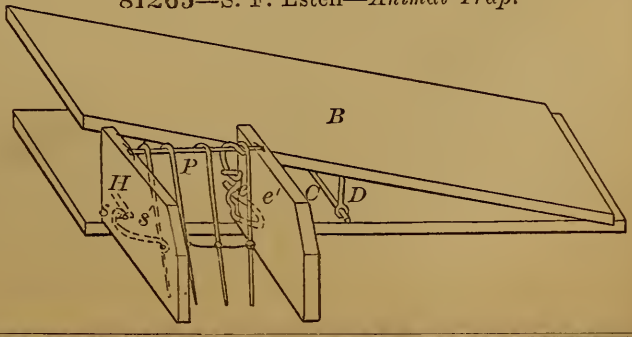
81269—C. Gooch—*Skate.*



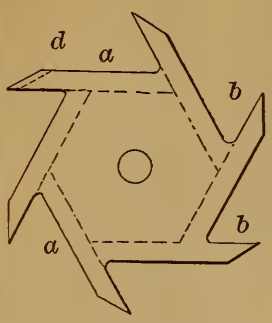
81266—J. A. Finnegan—*Curb for Hydrants.*



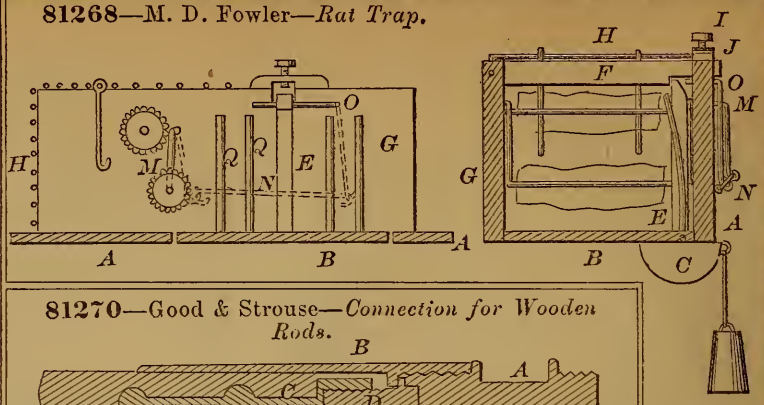
81265—S. F. Estell—*Animal Trap.*



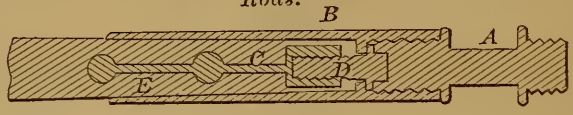
81267—J. F. Folmer—*Circular Saw.*



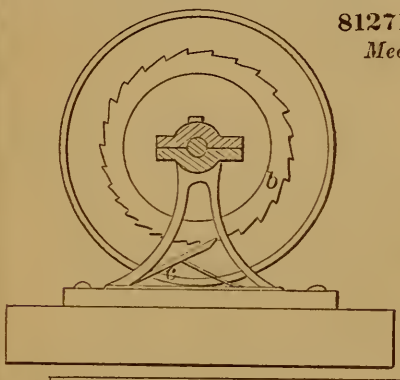
81268—M. D. Fowler—*Rat Trap.*

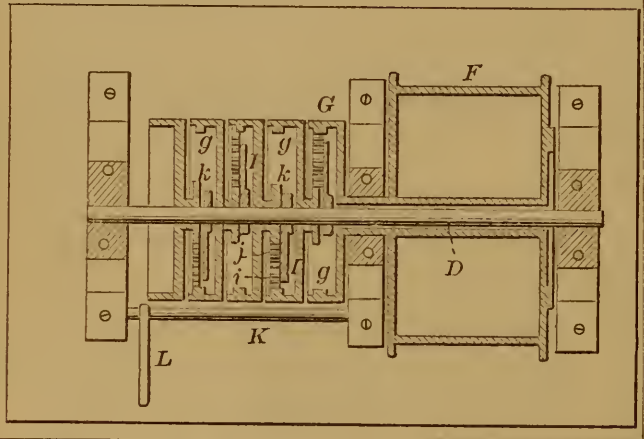


81270—Good & Strouse—*Connection for Wooden Rods.*

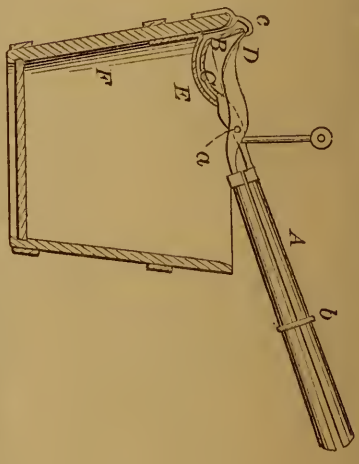


81271—W. F. Goodwin—*Mechanical Movement.*

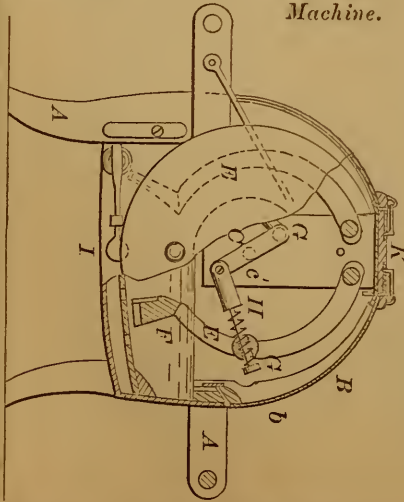




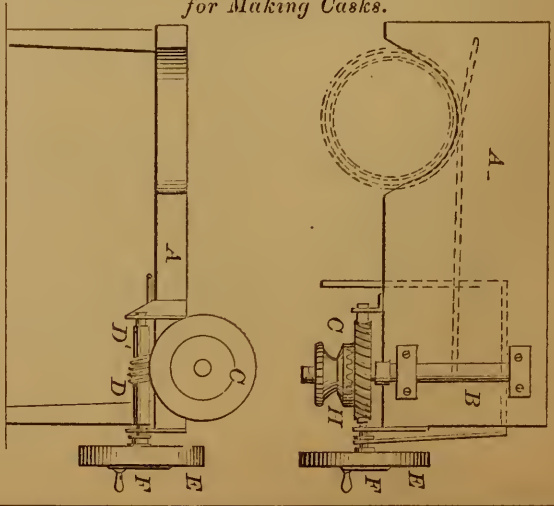
81272—C. Gullmann—*Mop Head and Wringer.*



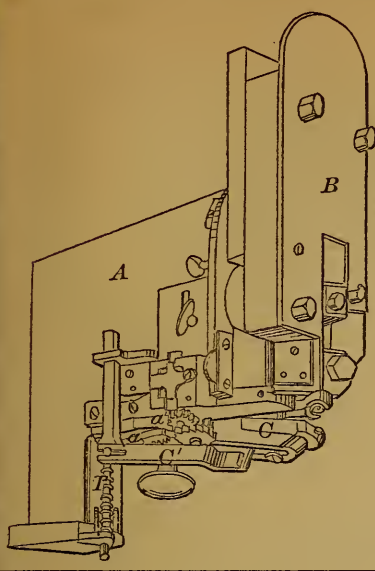
81273—W. Hoeft—*Washing Machine.*



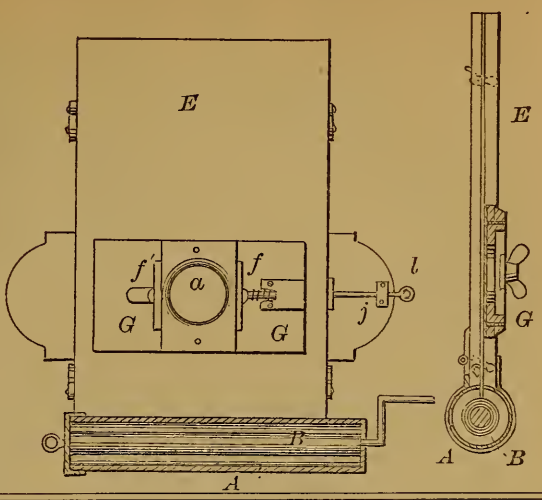
81274—E. & B. Holmes—*Power Windlass for Making Casks.*



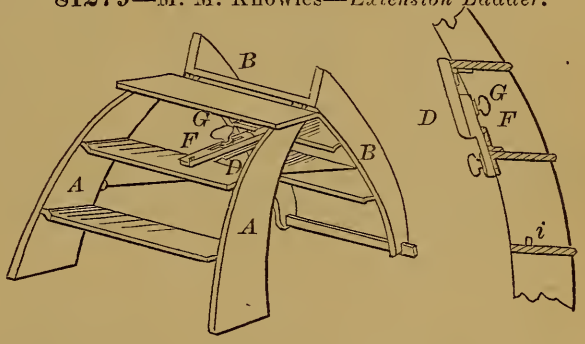
81275—Holt & Williams—*Peg Feed Stop for Pegging Machinery.*



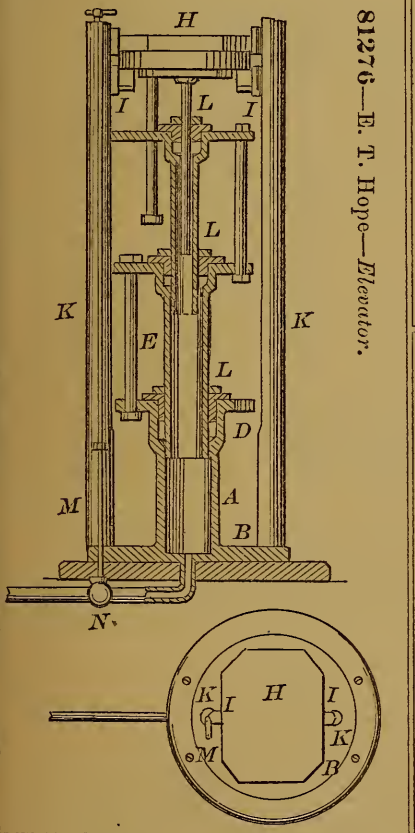
81277—A. S. Kilby—*For Printing Photographs.*



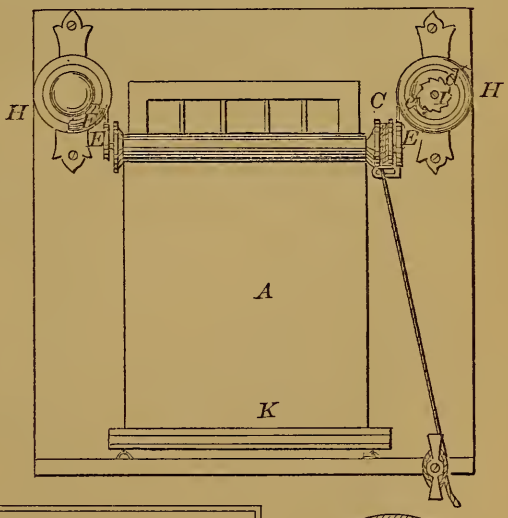
81279—M. M. Knowles—*Extension Ladder.*



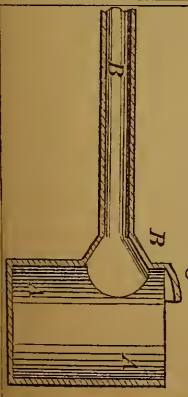
81276—E. T. Hope—*Elevator.*



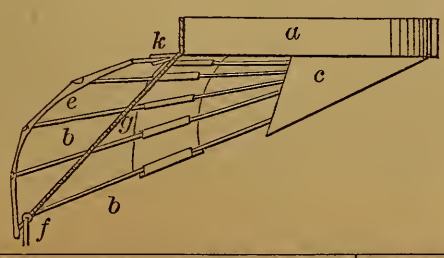
81280—J. D. Legg—*Curtain Fixture.*

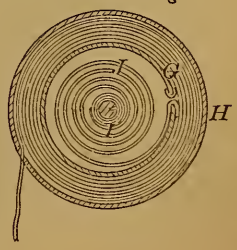


81278—G. W. King—*Vagina Injector.*

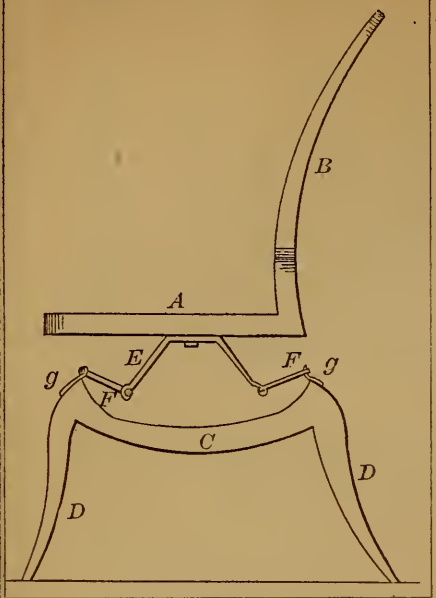


81281—J. B. Loomis—*Bustle.*

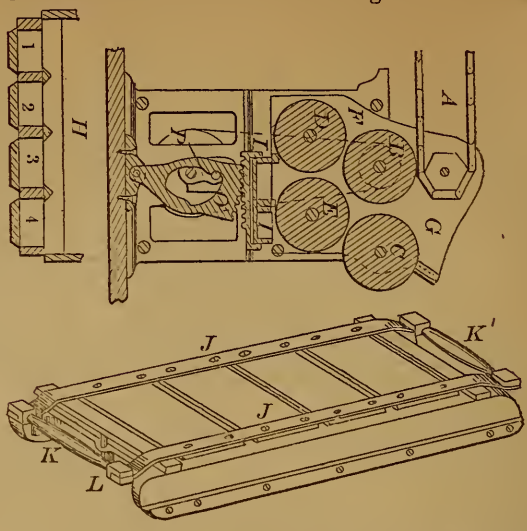




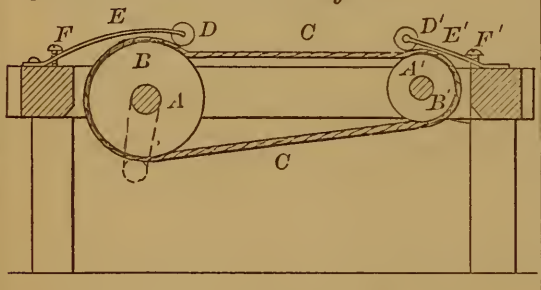
81282—D. Mareau—*Chair.*



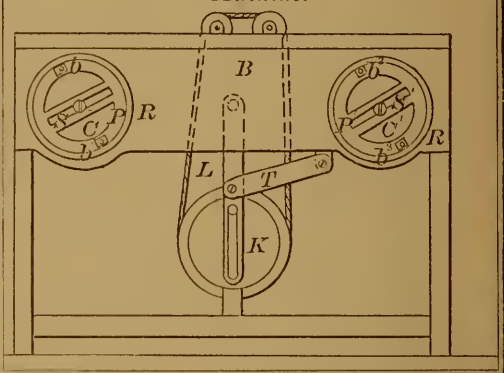
81284—Nulsen, Haneisen & Wagner—*Brick Machine.*

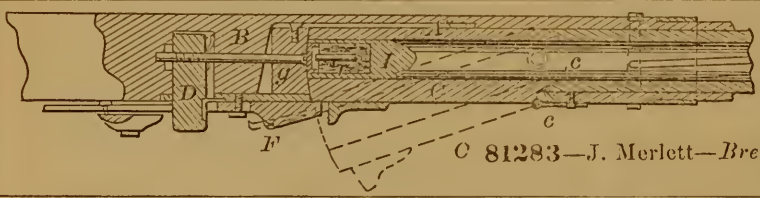


81285—S. Patton—*Belt Tightener.*



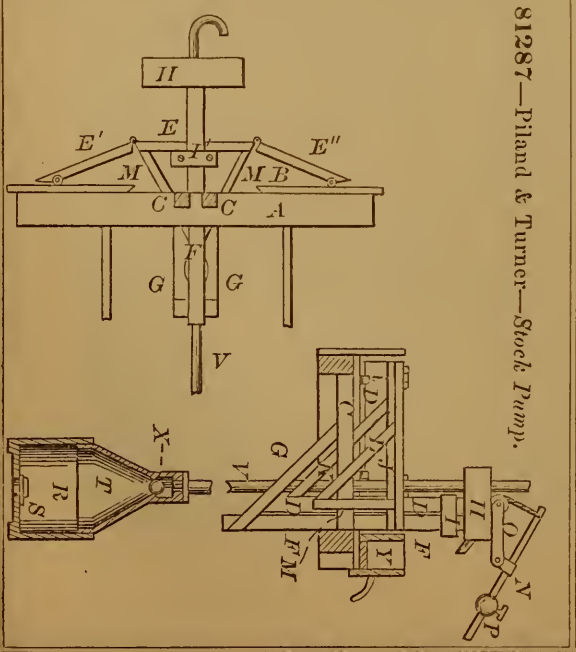
81286—J. A. Peabody—*Mortising Machine.*



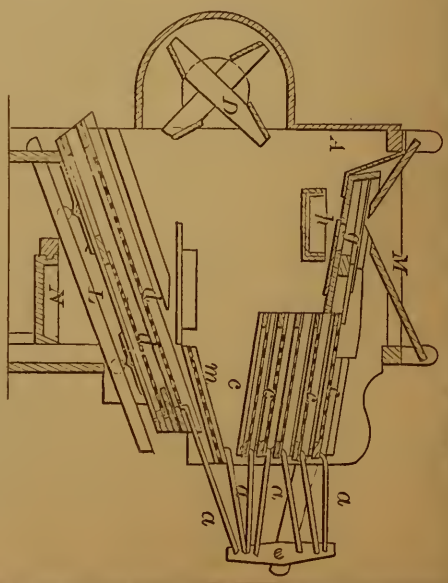


81283—J. Merlett—*Breech-Loading Fire Arm.*

81287—Piland & Turner—*Stock Pump.*



81288—J. F. Pool—*Grain Separator.*



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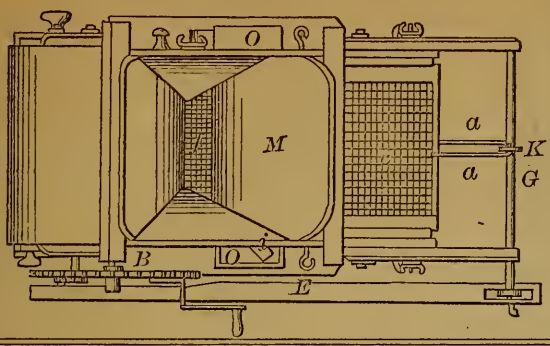
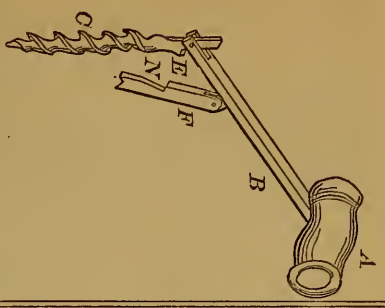
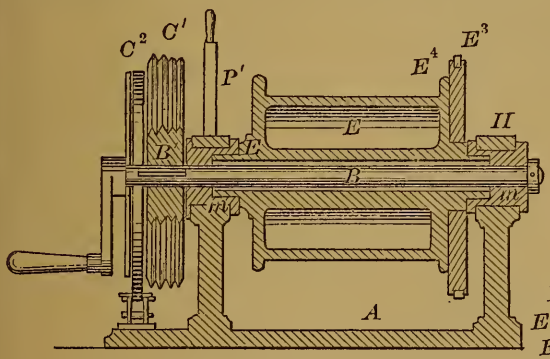
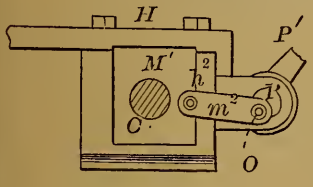


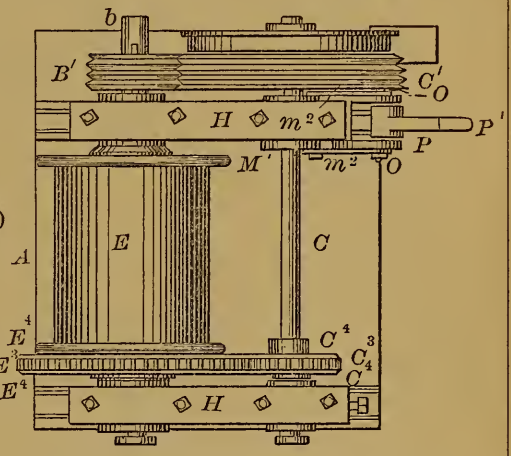
81292—C. L. Ridgway—*Corkscrew.*



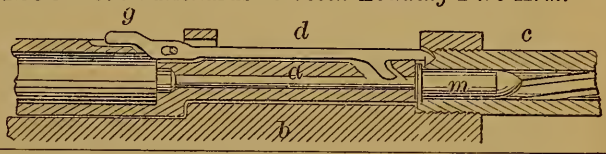
81289—G. H. Reynolds—*Hoisting Machine.*



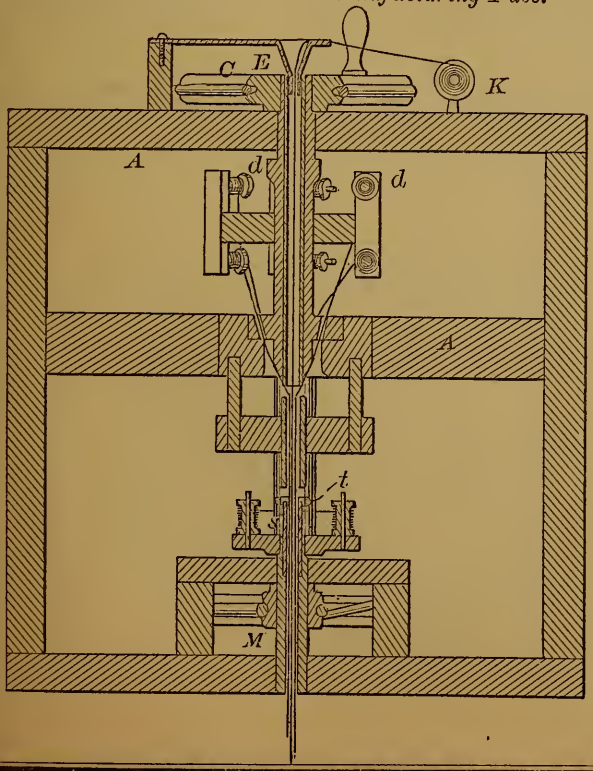




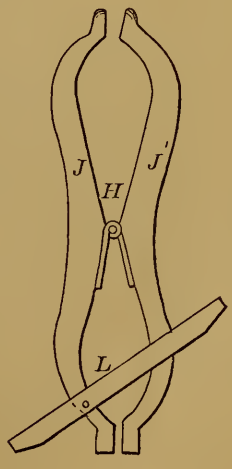
81290—C. B. Richards—*Breech-Loading Fire Arm.*



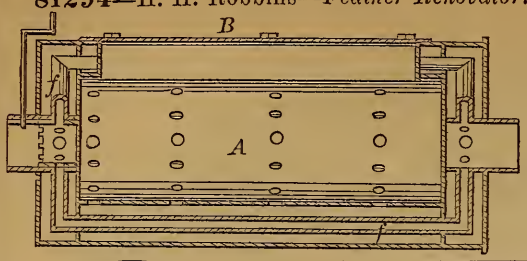
81291—T. Richards—*For Manufacturing Fuse.*

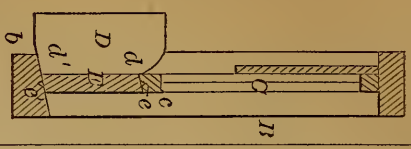


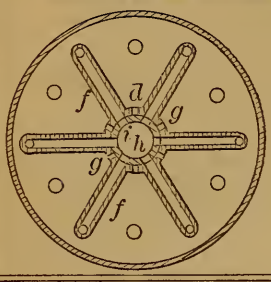
81293—A. Rittenhouse—*Clamp for Holding Leather.*

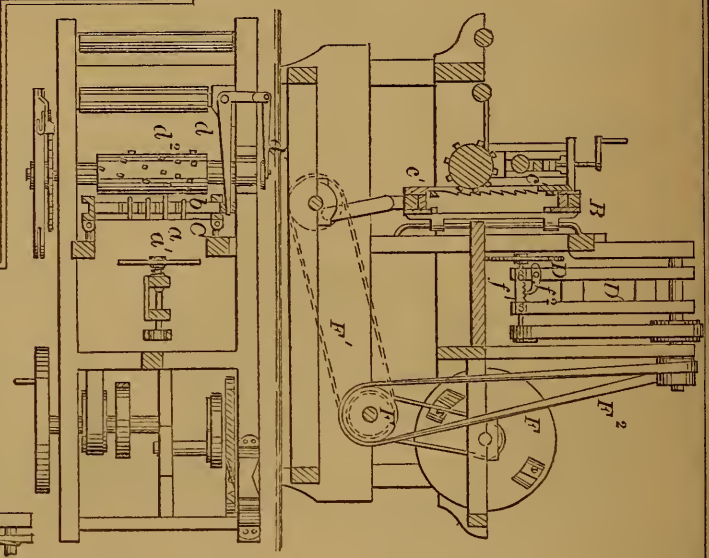


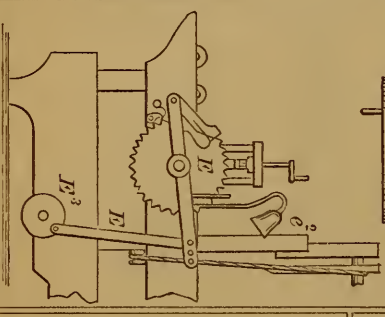
81294—H. H. Robbins—*Feather Renovator.*



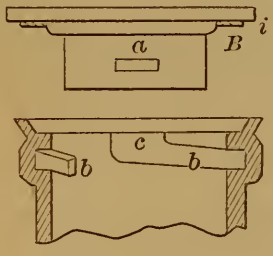
81297—Russell & Holmes—*Railroad Car Ventilator.*

81295—L. C. Robinson—*Shingle Machine.*



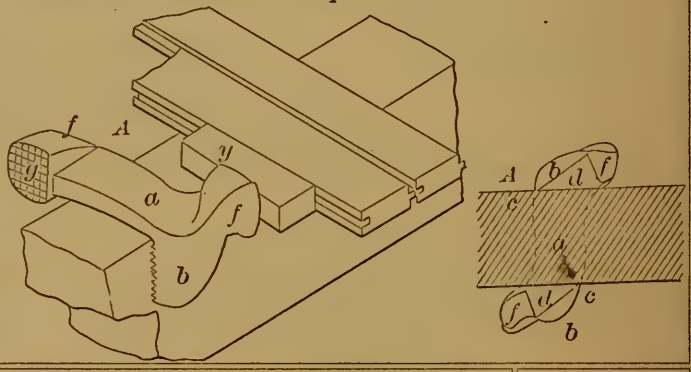


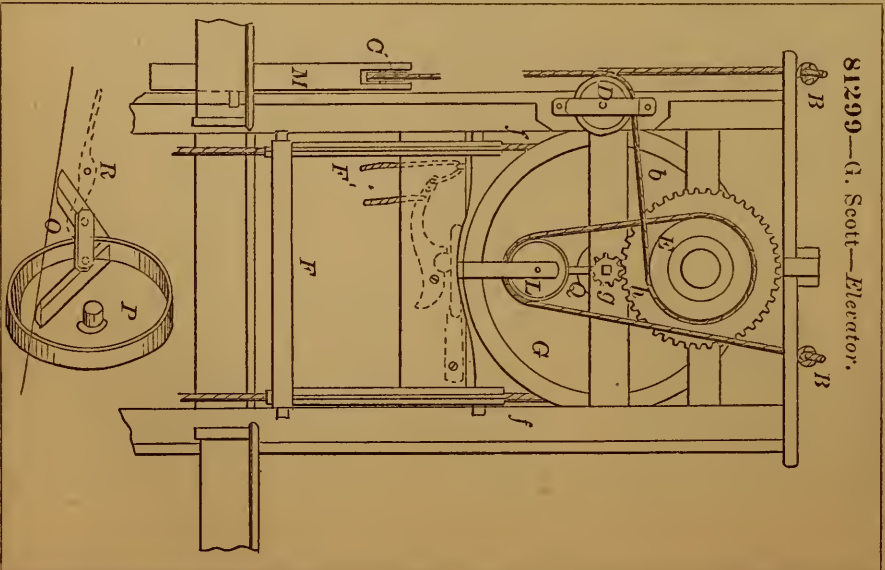


81296—Rohrbacher & Hormann—*Fruit Jar.*



81298—W. Sailer—*Clamp.*

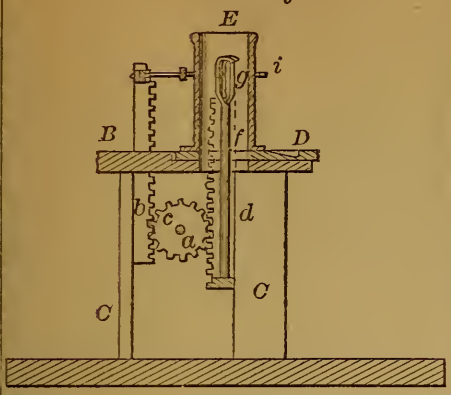


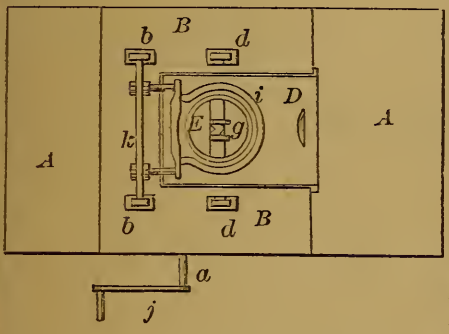


81299—G. Scott—*Elevator.*

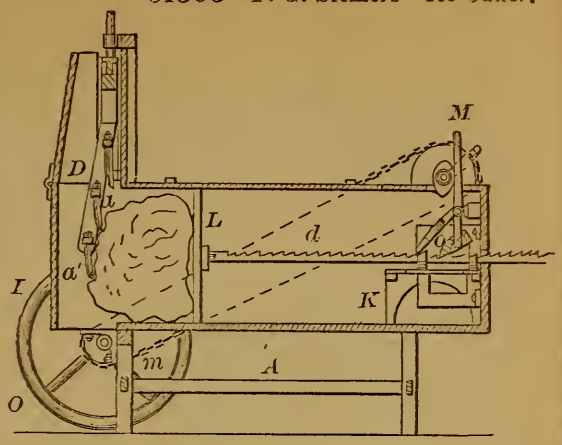
81300—T. S. Sedgwick—*Button Fastener.*

81301—J. Shearman—*For Turning Boot Legs.*

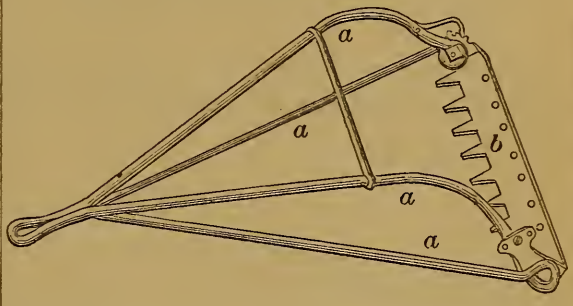




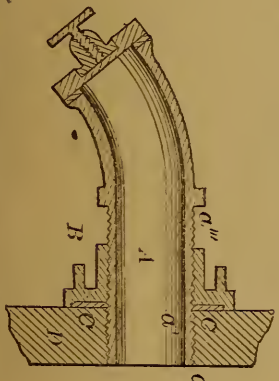
81303—F. G. Siemers—*Ice Cutter.*



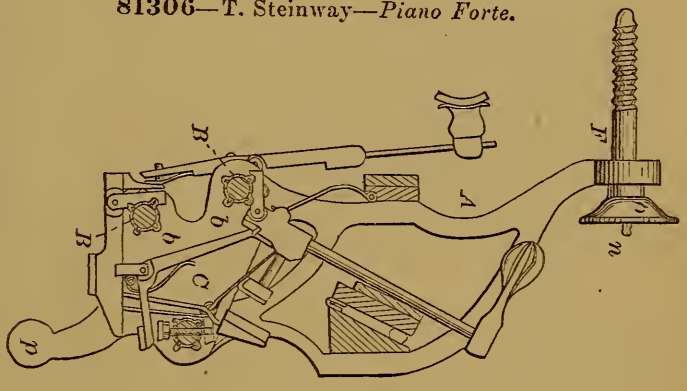
81304—T. P. Sink—*Oyster Dredge.*



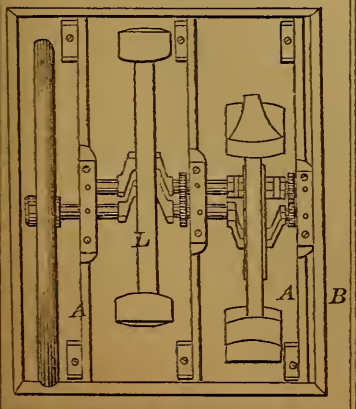
81305—D. P. Smith—*Faucet.*



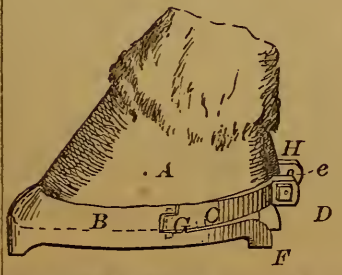
81306—T. Steinway—*Piano Forte.*



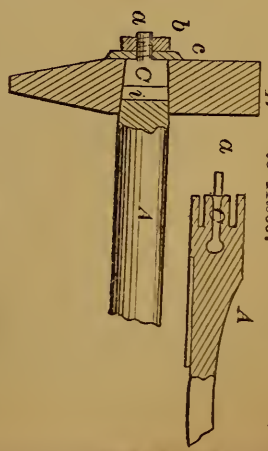
81302—R. Side—*For Obtaining Motive Power.*



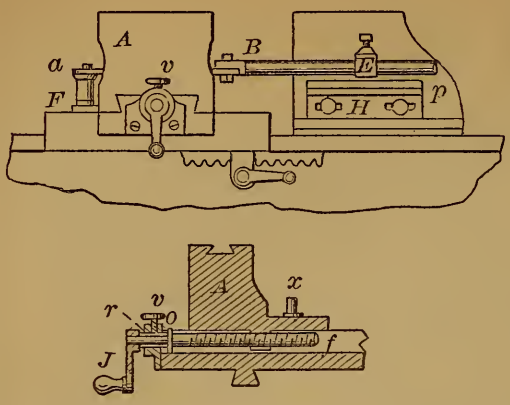
81307—C. O. Stevens—*Horse Shoe.*



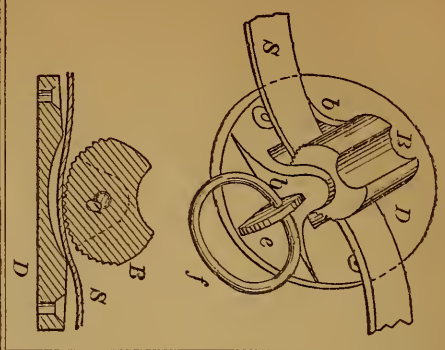
81308—J. Stewart—*Fastening Handles to Axes.*



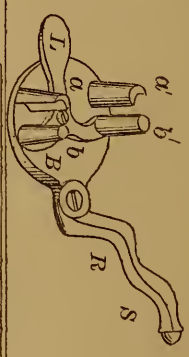
81309—S. Teal—*Engine Lathe.*



81311—J. Way—*Strap Holding Device.*

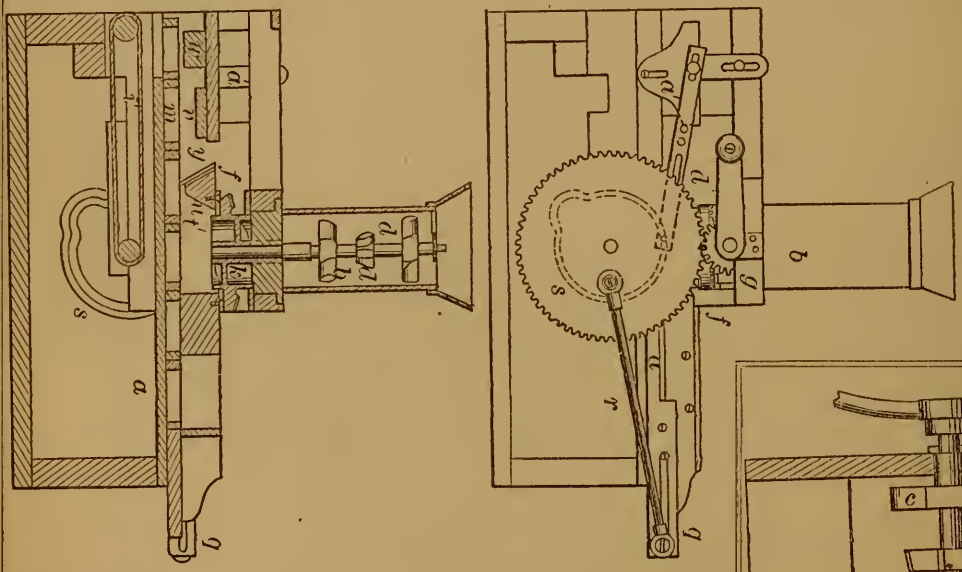


81312—T. Weaver—*Clothes Hook and Line Holder.*

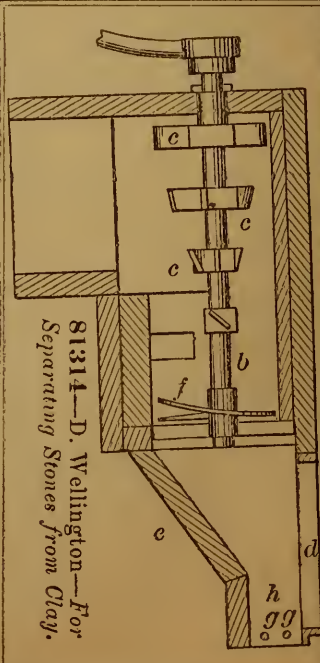


81310—Tilton & Swift—*Clothes Line Supporter.*

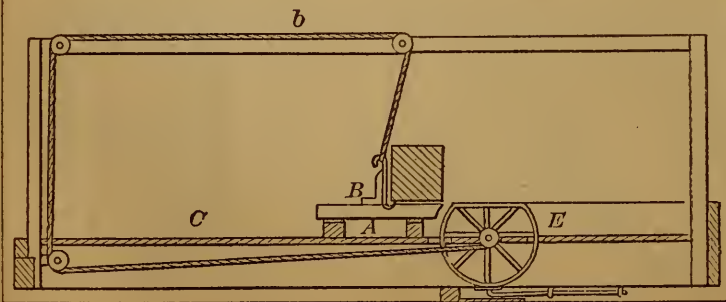
81313—D. Wellington—*Brick Machine.*



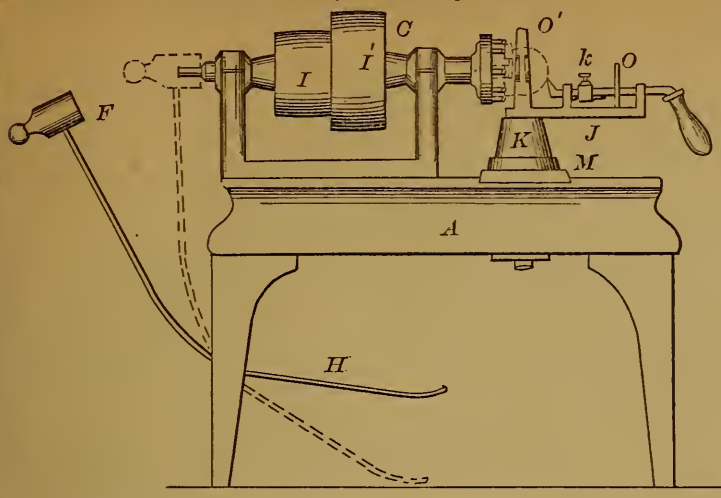
81314—D. Wellington—*For Separating Stones from Clay.*

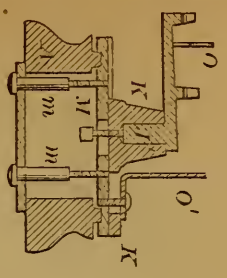


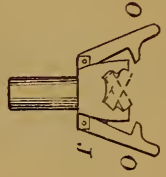
81316—G. Willett—*Turning Logs in Saw Mills.*



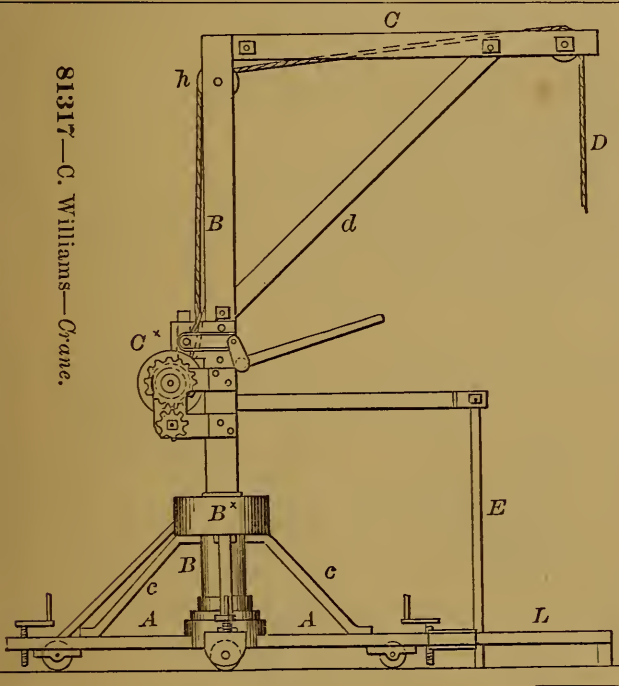
81315—J. B. West—*Lathe for Turning Balls.*



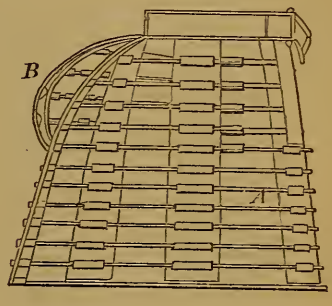


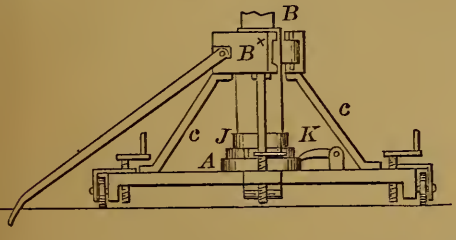


81317—C. Williams—*Crane.*

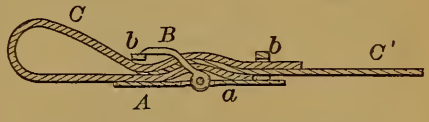


81319—A. K. Young—*Hoop Skirt and Bustle.*

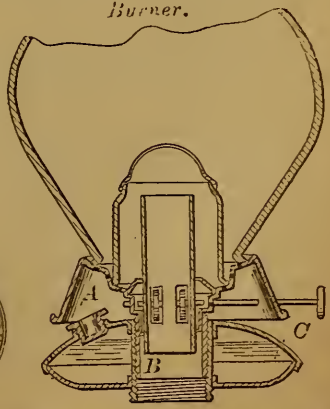




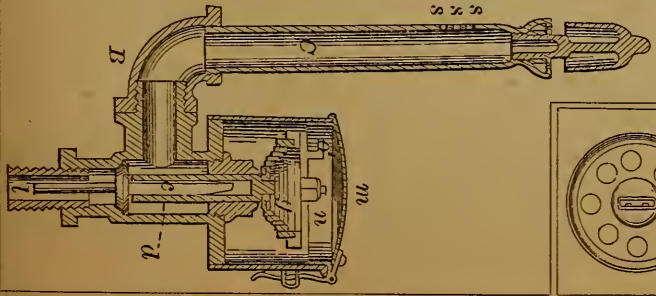
81318—H. C. Wissel—*Buckle.*



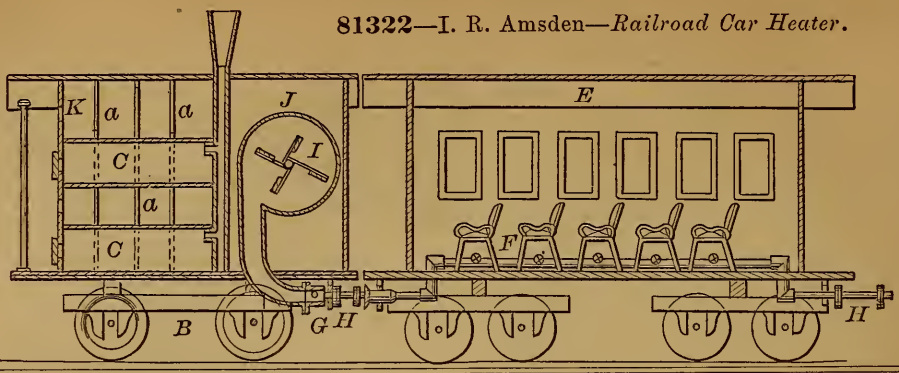
81321—J. Allen—*Lamp Burner.*



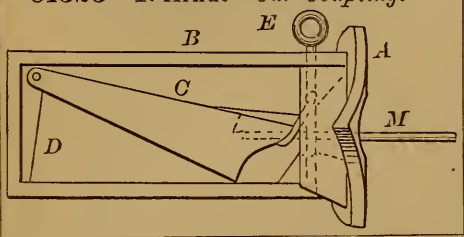
81320—E. G. Allen—*Steam Safety Valve.*



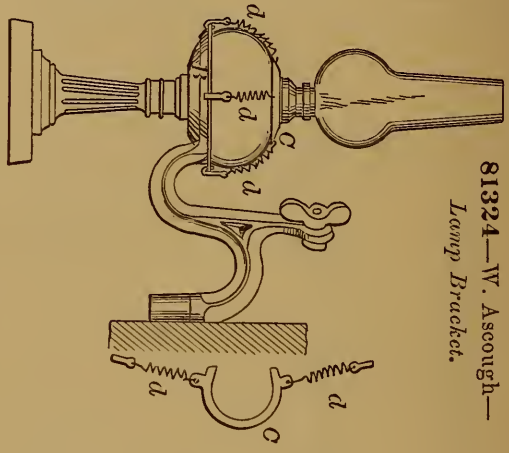
81322—I. R. Amsden—*Railroad Car Heater.*



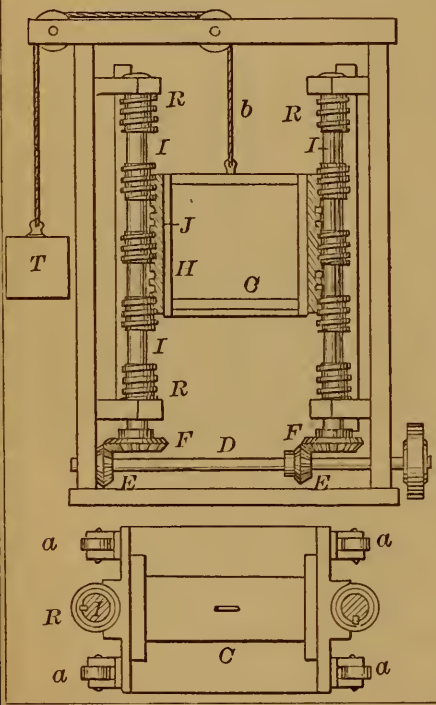
81323—T. Arndt—*Car Coupling.*



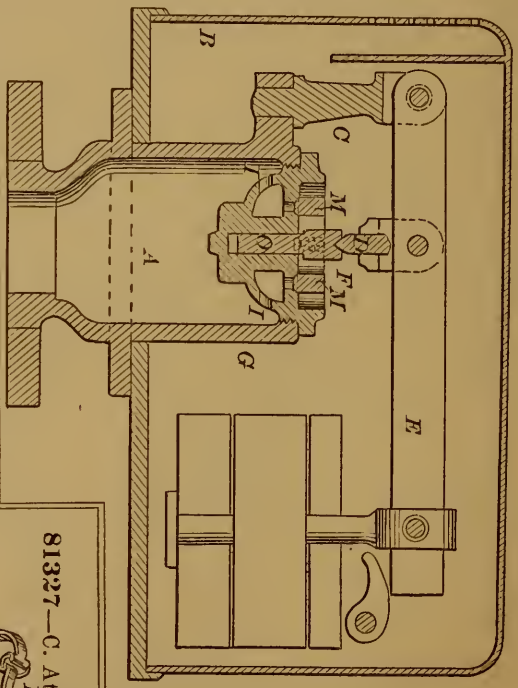
81324—W. Ascough—*Lamp Bracket.*



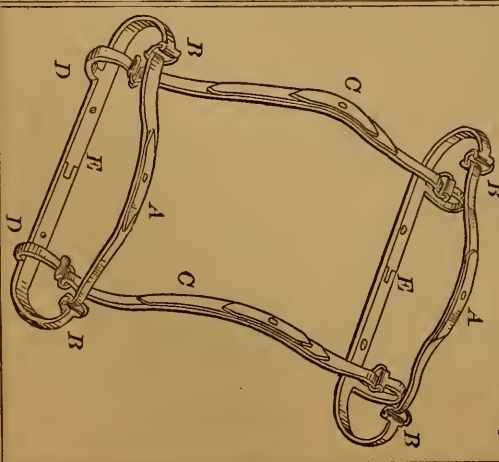
81325—Ashcroft & Brown—*Elevator.*



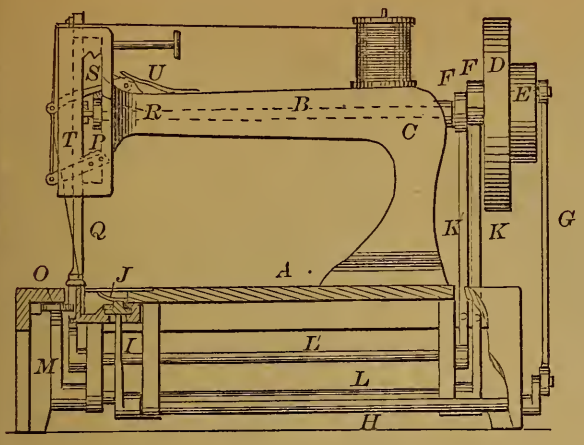
81326—J. Ashcroft—*Steam Safety Valve.*

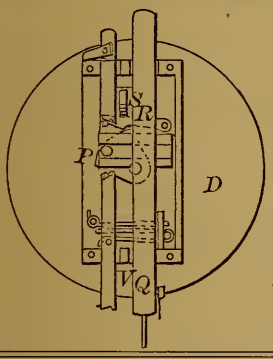


81327—C. Atherton—*Wagon Spring.*

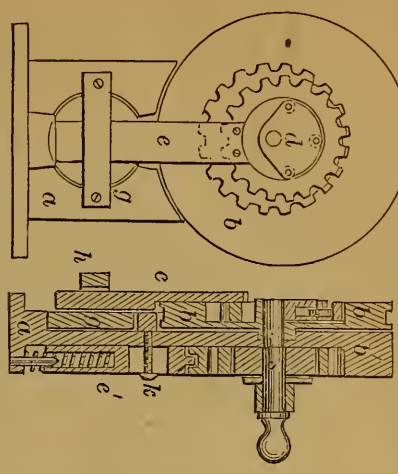


81328—R. Barclay—*Sewing Machine.*

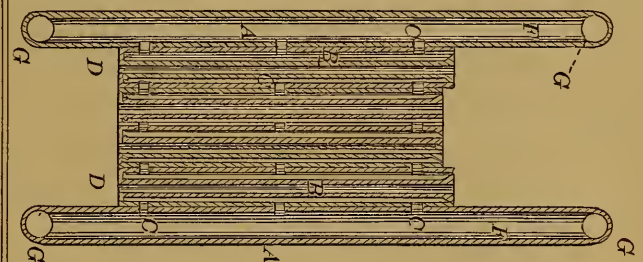




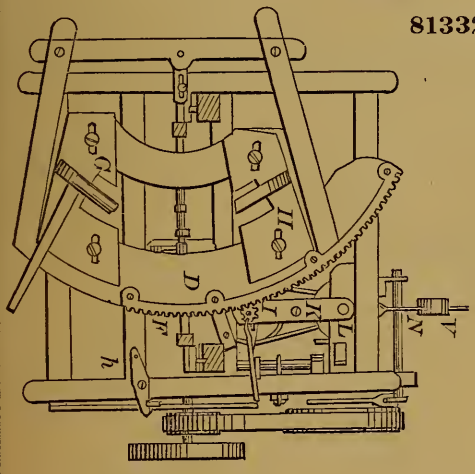
81329—J. S. Barden—*Mechanical Movement.*

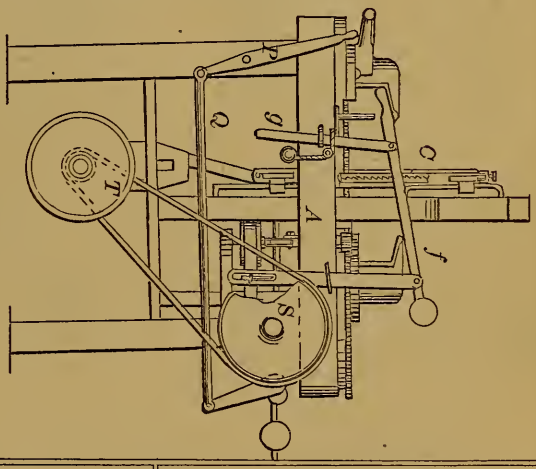


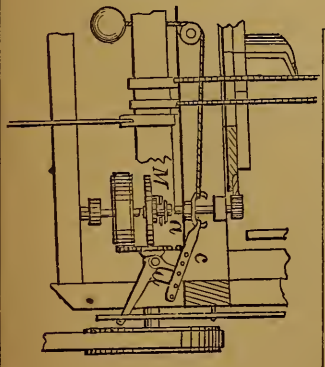
81330—C. Bean—*Steam Generator.*



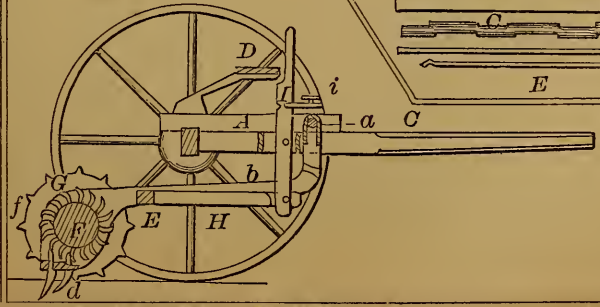
81332—P. S. Beidler—*Sawing Machine.*



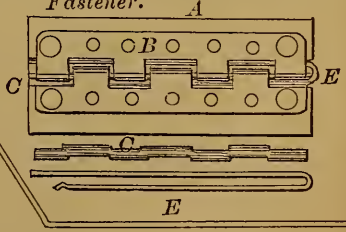




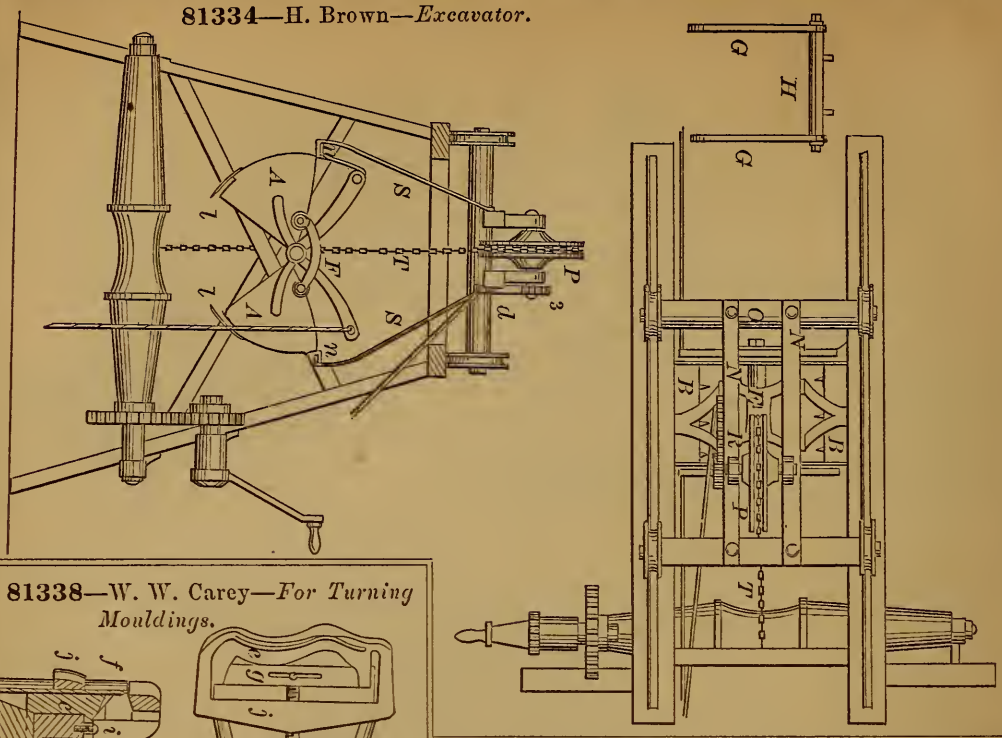
81333—C. Berninger—*Soil Pulverizer.*



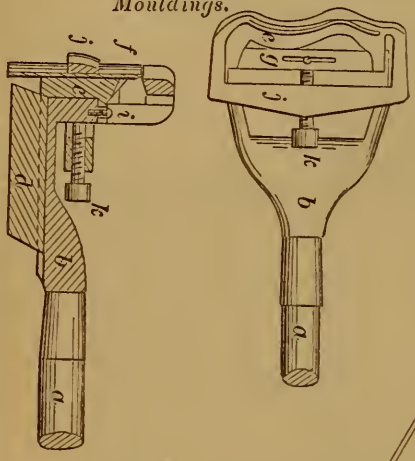
81331—G. M. Beardsley—*Belt Fastener.*



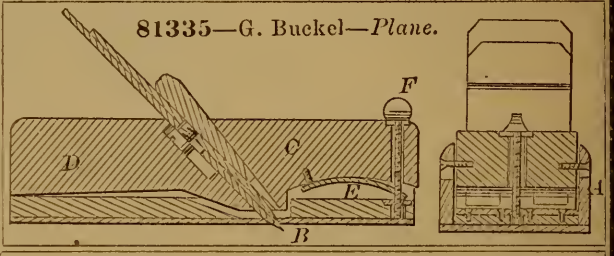
81334—H. Brown—*Excavator.*



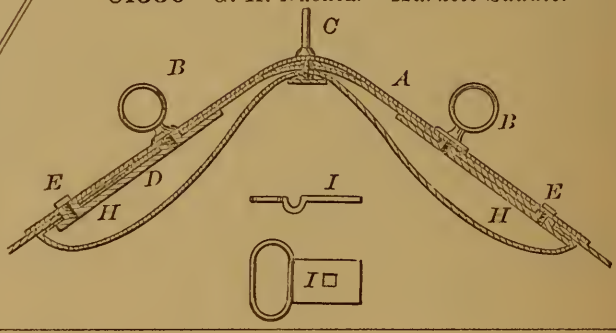
81338—W. W. Carey—*For Turning Mouldings.*



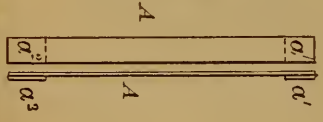
81335—G. Buckel—*Plane.*

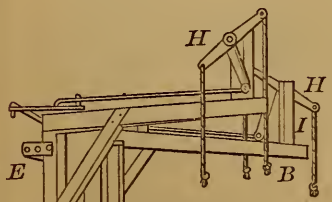


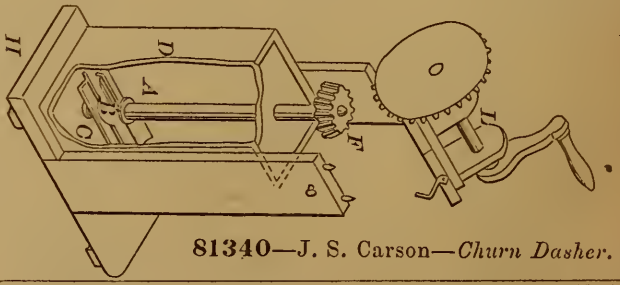
81336—G. H. Buckius—*Harness Saddle.*



81339—E. M. Carrington—*Self-Cementing Band.*

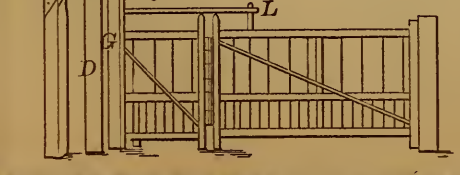


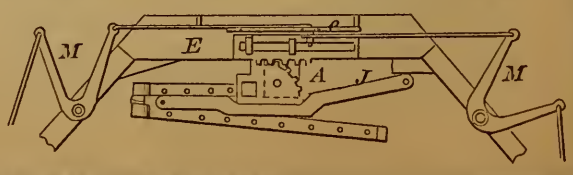




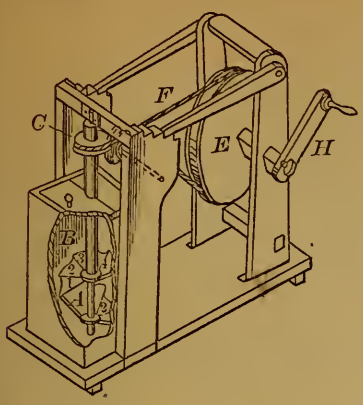
81340—J. S. Carson—*Churn Dasher.*

81337—A. L. Butler—*Farm Gate.*

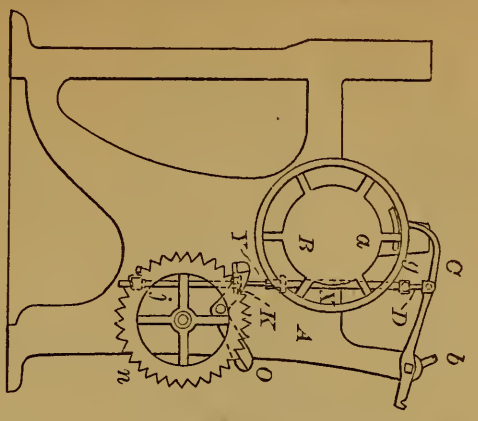




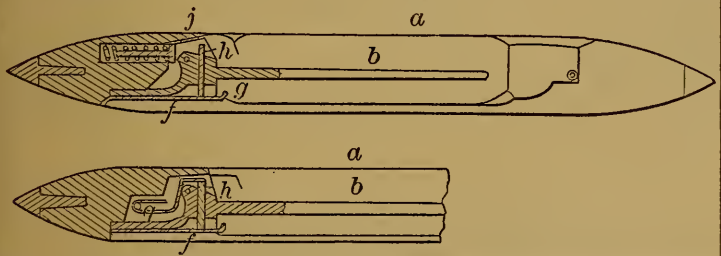
81341—J. S. Carson—*Churn.*



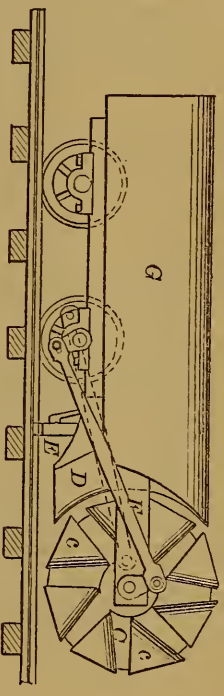
81342—B. F. Carter—*Let-off Mechanism for Looms.*



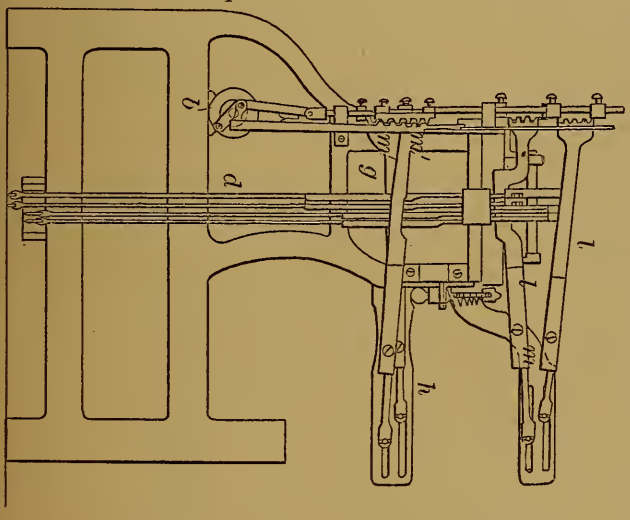
81344—A. D. Clark—*Loom Shuttle.*



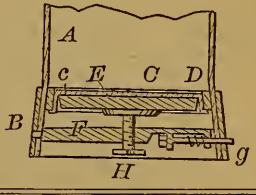
81343—R. D. Chatterton—*Snow Clearer*



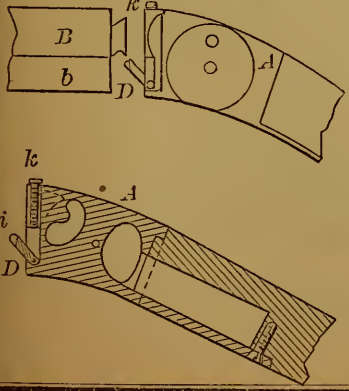
81347—G. Crompton—*Loom.*



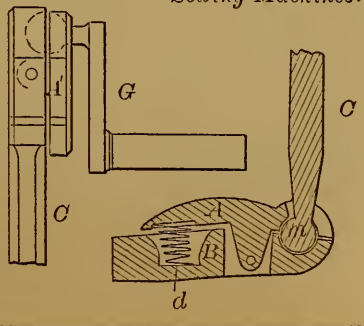
81345—A. P. Cook—*Milk Can.*



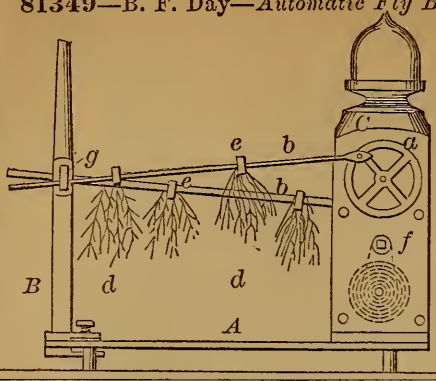
81348—N. R. Davis—*Attaching Gun Barrels to Stocks.*



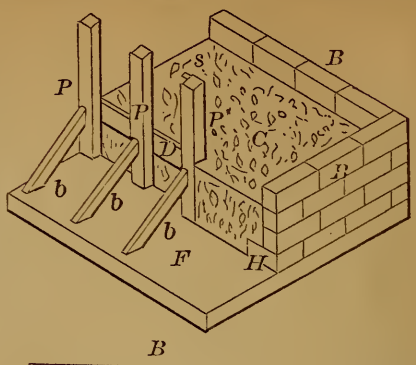
81346—J. Crandell—*Treadle Attachment for Sewing Machines.*

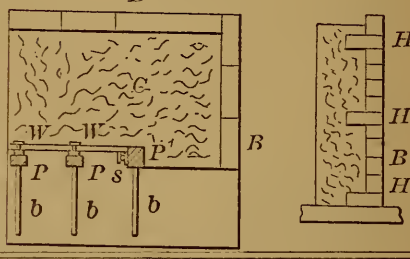


81349—B. F. Day—*Automatic Fly Brush.*

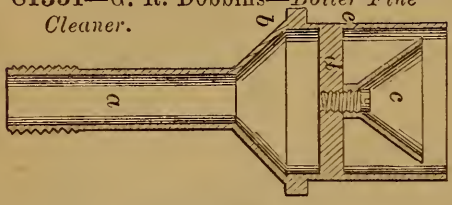


81350—J. M. Deitz—*Brick Wall.*

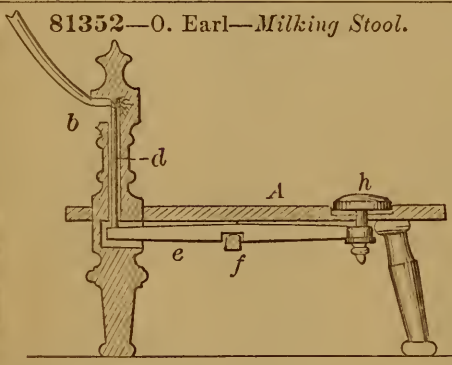


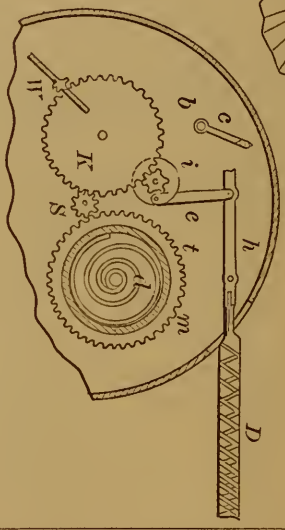


81351—G. R. Dobbins—*Boiler Flue Cleaner.*



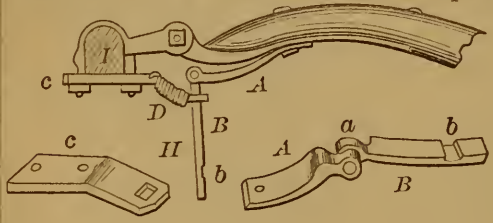
81352—O. Earl—*Milking Stool.*



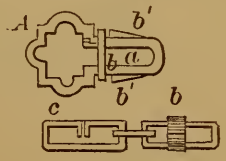


81353—G. F. Evans—*Fanning Machine.*

81355—Fink & Hershock—*Thill Coupling.*

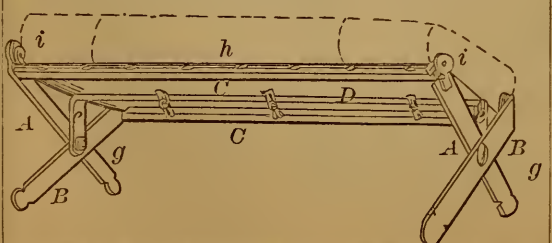


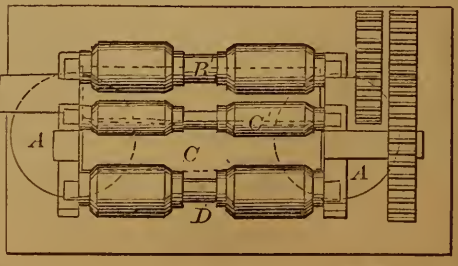
81354—C. Faas—*Watch Chain Hook.*



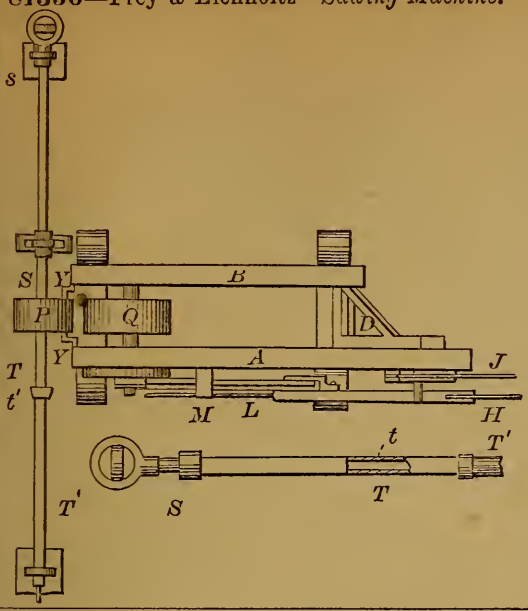
81357—J. B. Fuller—*For Drawing and Spinning Cotton.*

81358—E. K. Garretson—*Bed Bottom.*

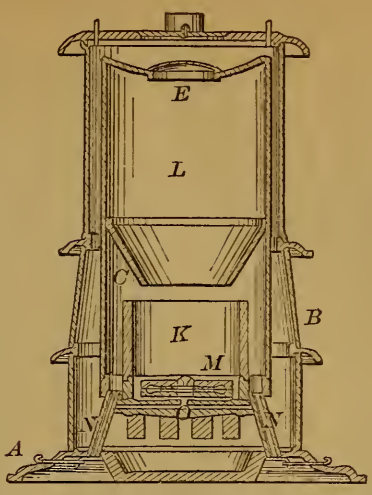




81356—Frey & Eichholtz—*Sawing Machine.*

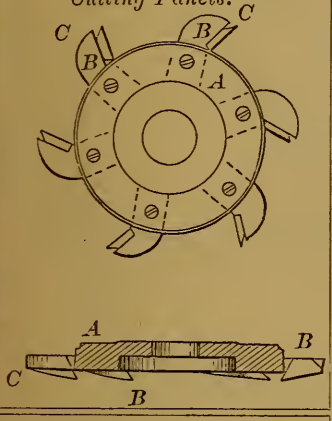


81360—I. H. Glidersleeve—*Stove.*

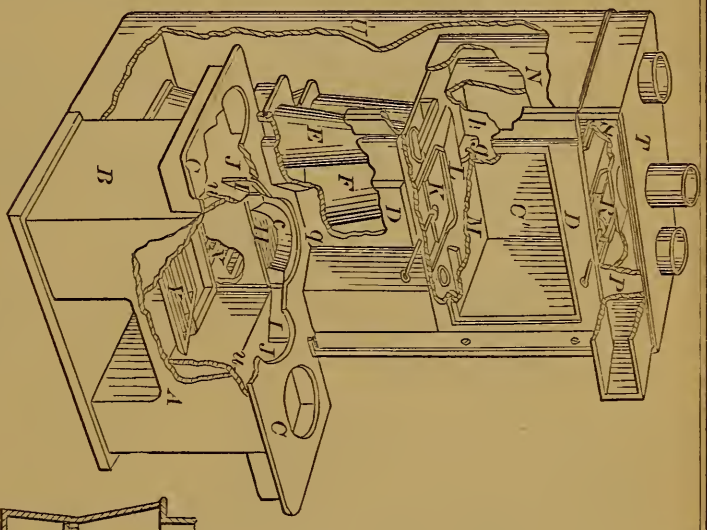


81359—W. A. Gensch—*Lamp Wick.*

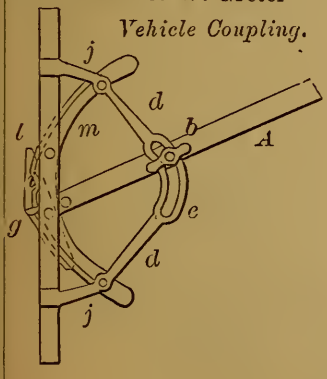
81361—F. D. Green—*For Cutting Panels.*

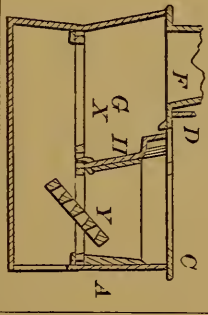


81362—W. A. Greene—*Heater Range.*

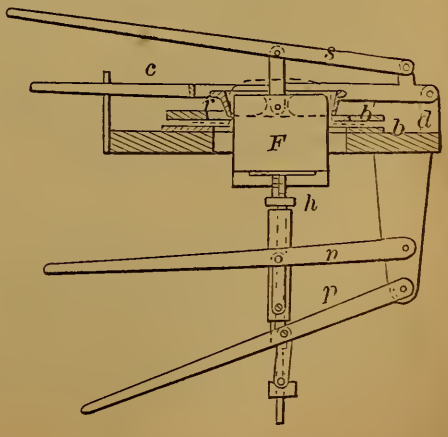


81363—C. W. Greter—*Vehicle Coupling.*

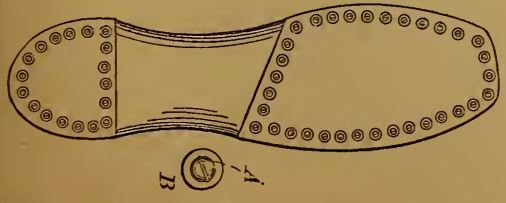




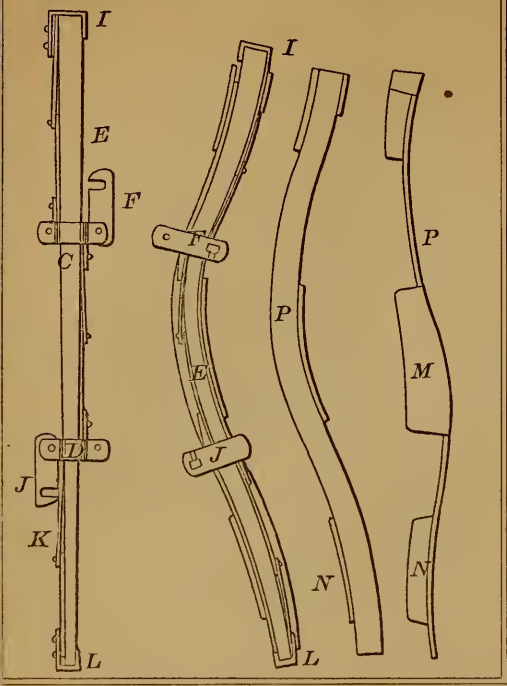
81364—Griswold, Pelisse & Hook—*For Blocking Hats.*



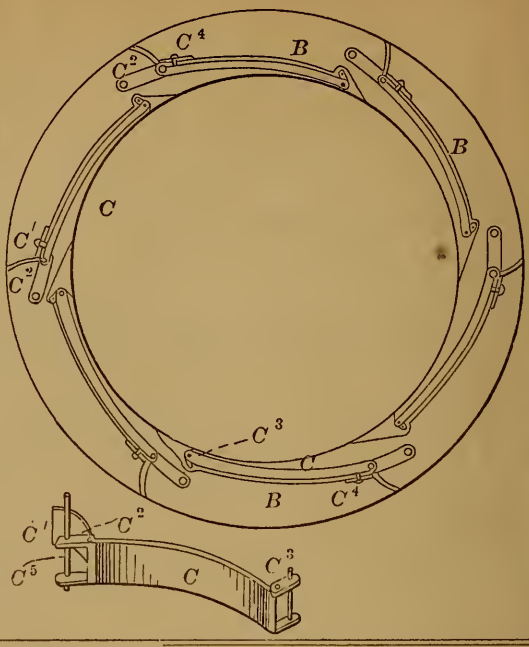
81366—F. M. Hawks—*Attaching Soles to Boots and Shoes.*



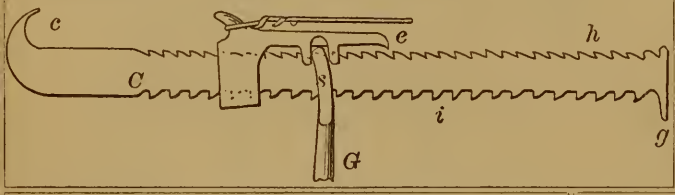
81365—J. S. Hall—*For Bending Wood.*



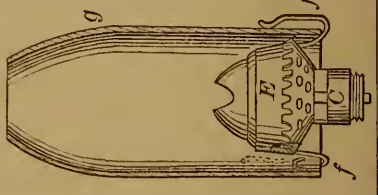
81368—J. L. Helmer—*Water Wheel Gate.*



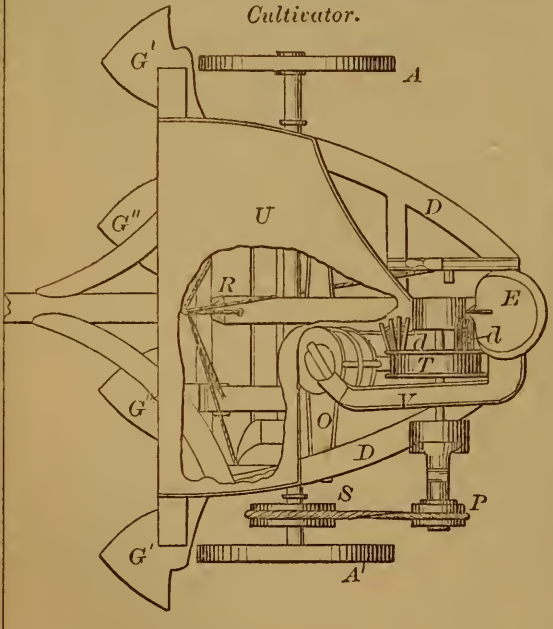
81367—W. B. Hayden—*Wire Stretcher for Fences.*

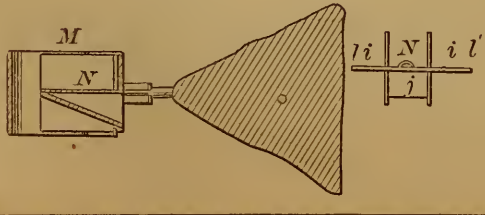


81370—J. E. Hendricks—*Lamp.*

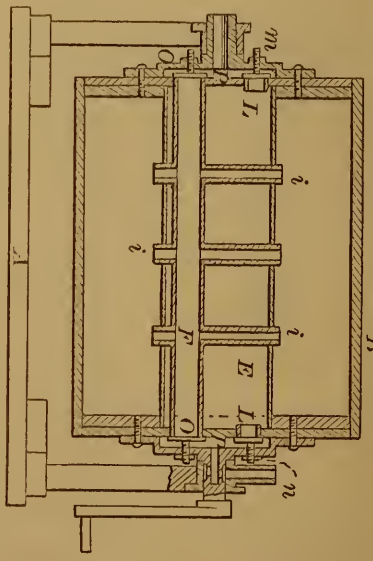


81371—C. F. Hoffman—*Potato Planter and Cultivator.*

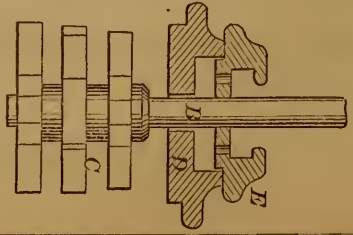




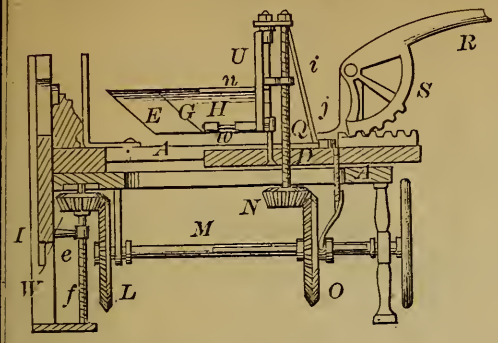
81369—C. E. Hendrick—*Feather Renovator.*

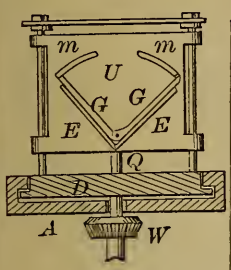


81372—S. P. Hopkins—*Churn Dasher and Lid.*

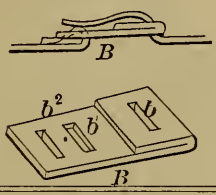


81373—F. A. Howard—*Mitering Machine.*

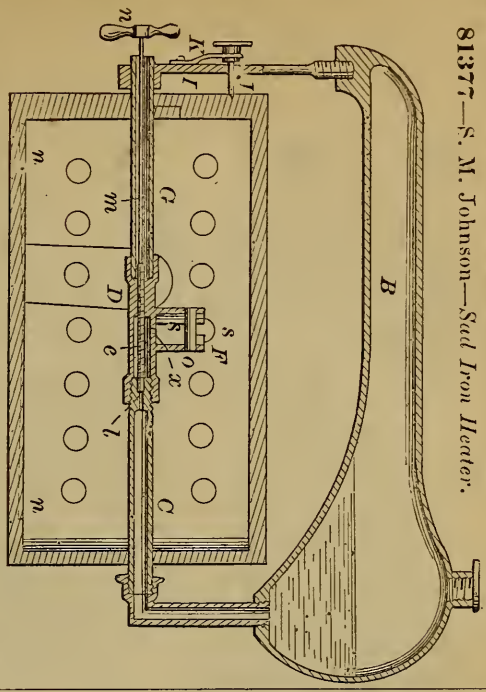




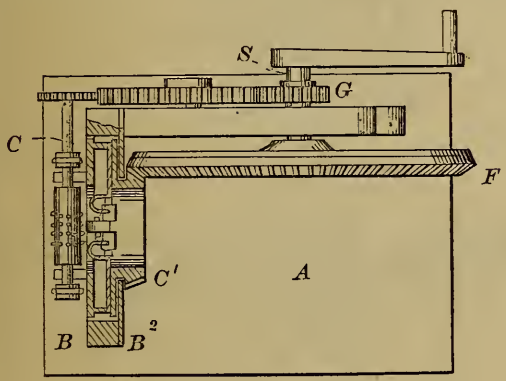
81374—W. M. Irvine—*Bale Fastening.*

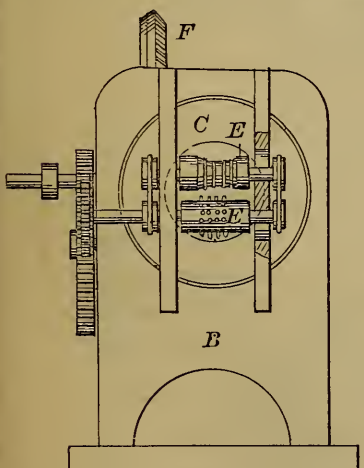


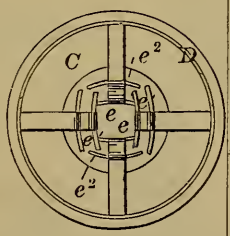
81377—S. M. Johnson—*Stud Iron Heater.*



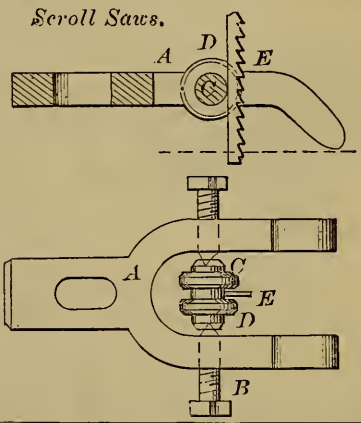
81375—G. F. Johnson—*Corn Sheller.*





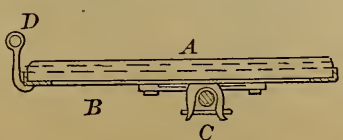


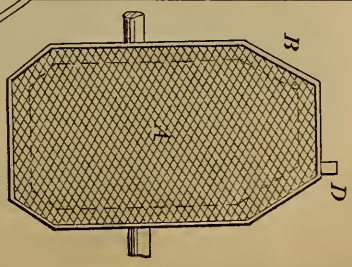
81376—L. A Johnson—*Guide for Scroll Saws.*



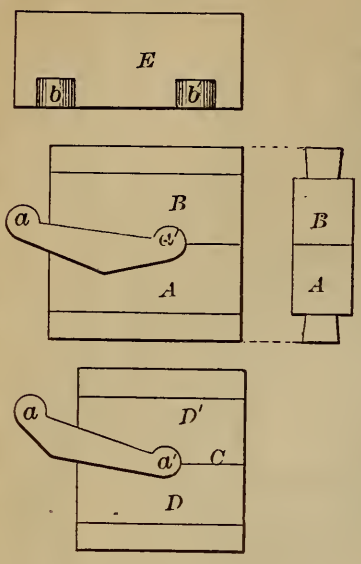
81378—J. L. Joyce—*Button Boot.*

81379—C. Kihn—*Sewing Machine Treadle*

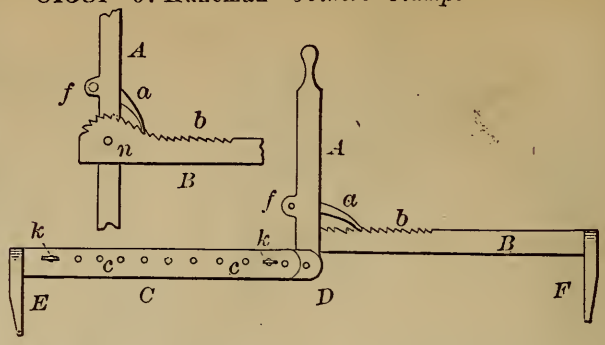




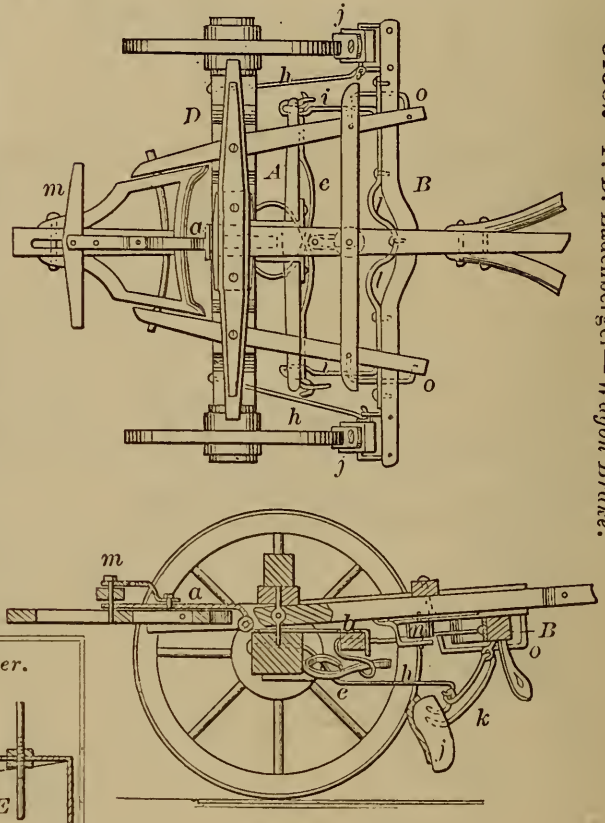
81380—J. Kritch—*Die for Clevis Blanks.*



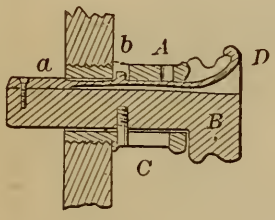
81381—J. Kuneman—*Joiners' Clamp.*



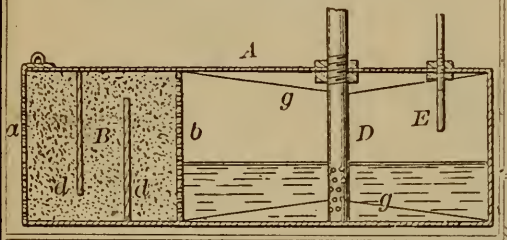
81382—F. D. Ladenberger—*Wagon Brake.*



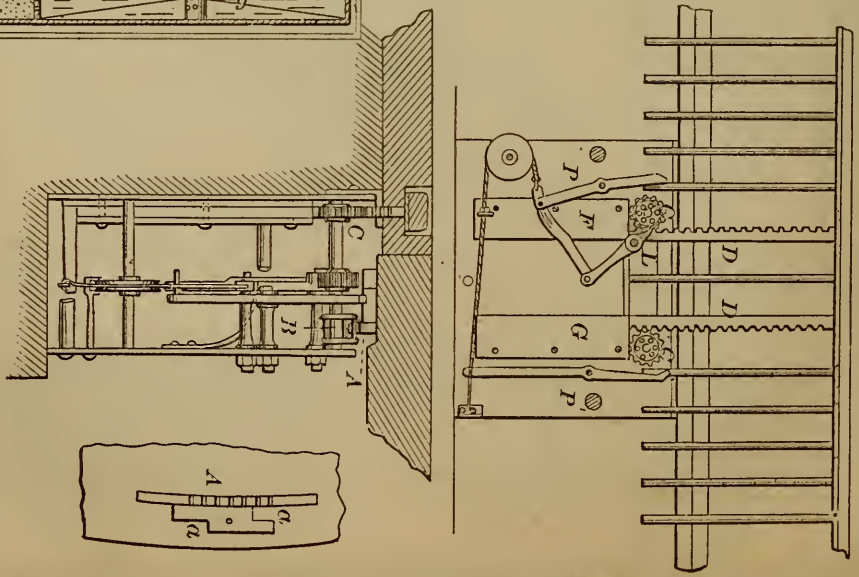
81384—W. J. Linton—*For Locking Loose Pulleys.*



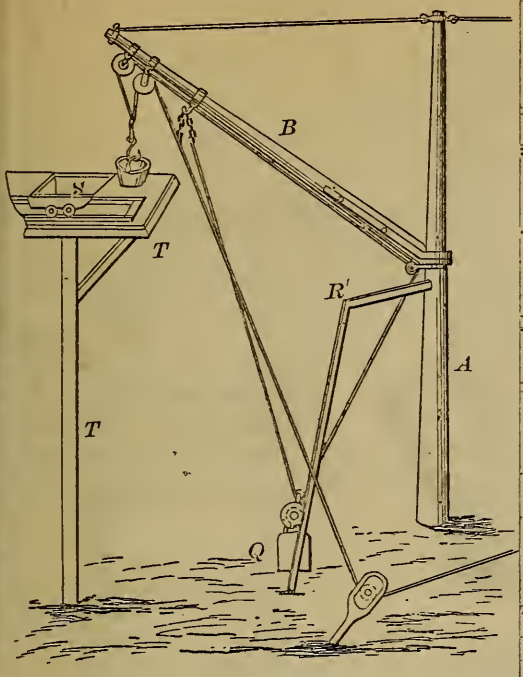
81386—Long & Lownsbery—*Filter.*



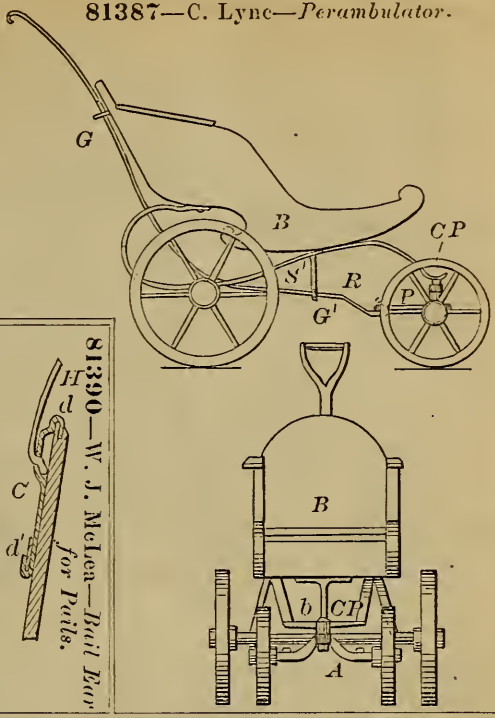
81383—J. Lehmann—*Bridge Guard.*



81385—C. S. Lockwood—*Derrick.*

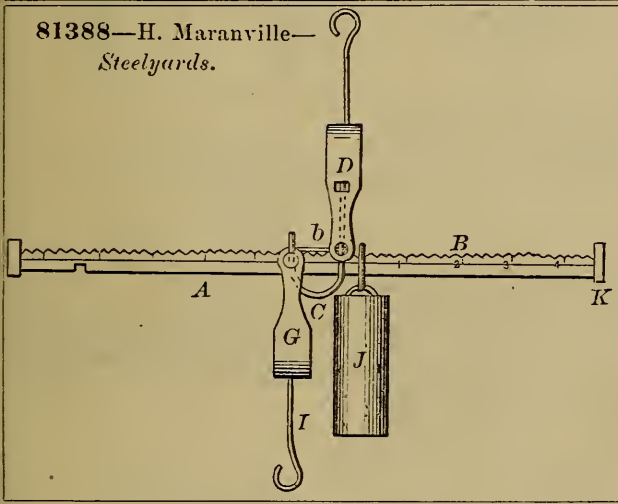


81387—C. Lync—*Perambulator.*

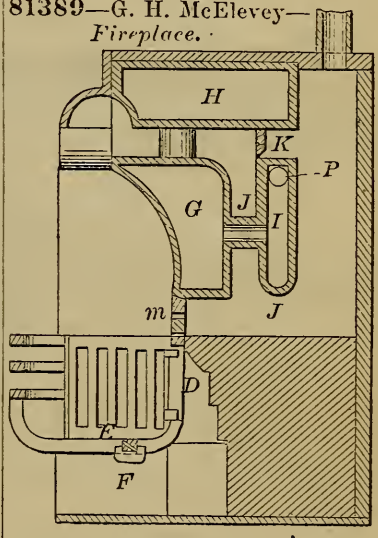


81390—W. J. McLea—*Bail Bar for Pails.*

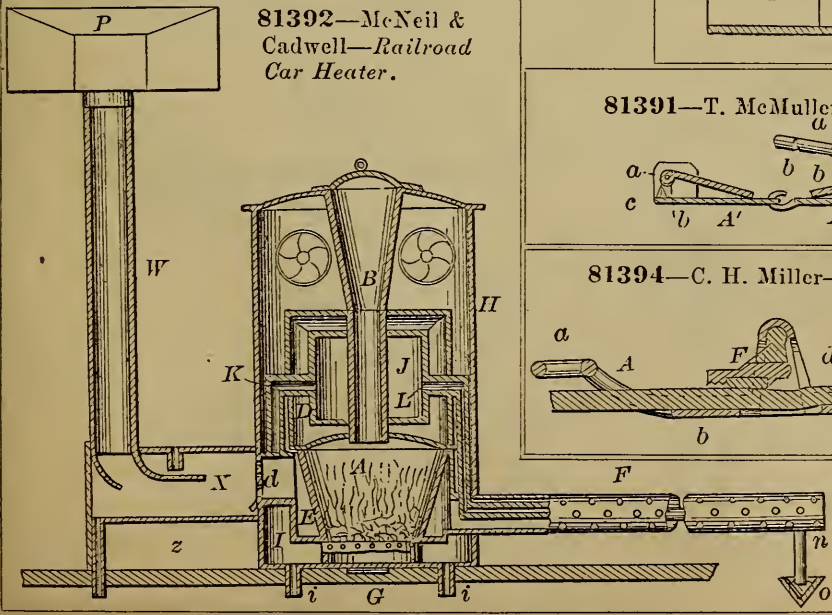
81388—H. Maranville—*Steelyards.*



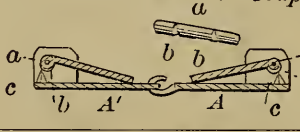
81389—G. H. McElevey—*Fireplace.*



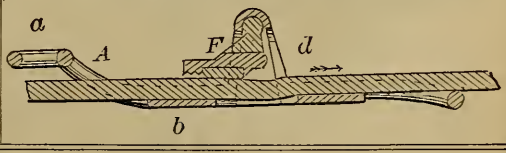
81392—McNeil & Cadwell—*Railroad Car Heater.*



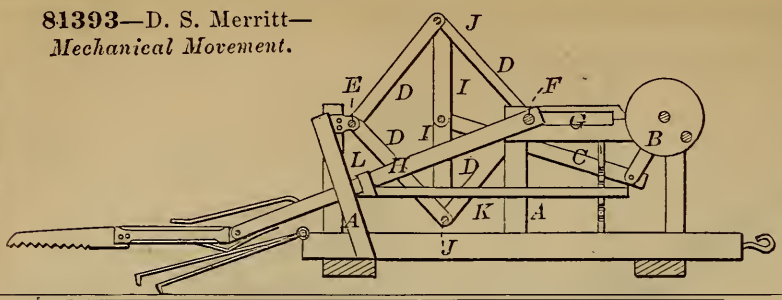
81391—T. McMullen—*Coupling Belt.*



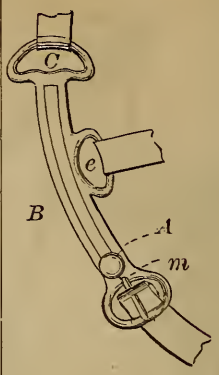
81394—C. H. Miller—*Trace Buckle.*



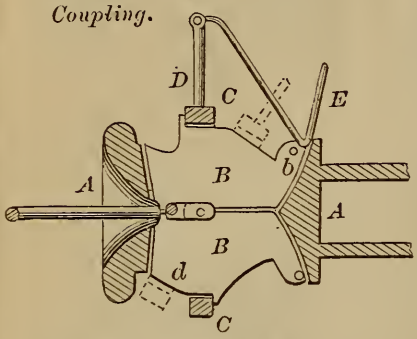
81393—D. S. Merritt—*Mechanical Movement.*



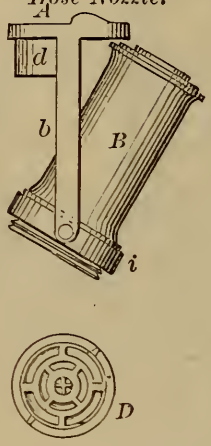
81395—C. H. Miller—*Bridle Bit.*



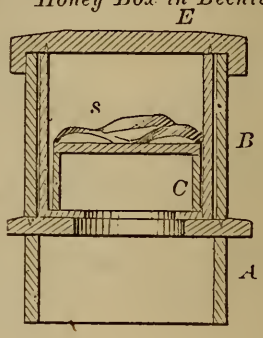
81397—L. Monzert—*Car Coupling.*



81396—J. B. Mitchell—*Hose Nozzle.*

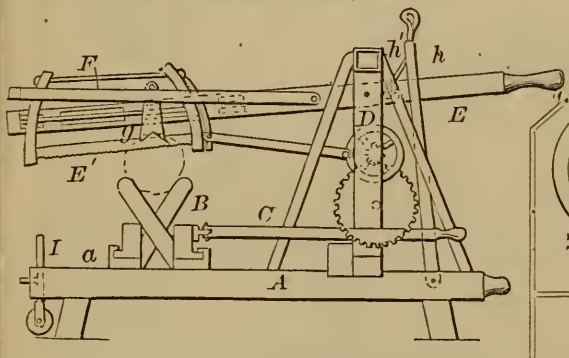


81398—Moon & Turner—*Honey Box in Beehive.*

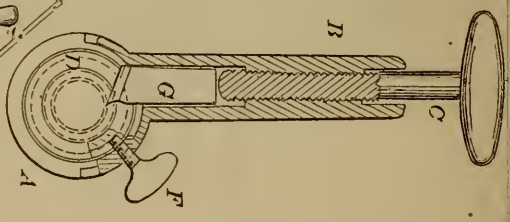


81399—C. A. Moore—*Knife and Fork Handle.*

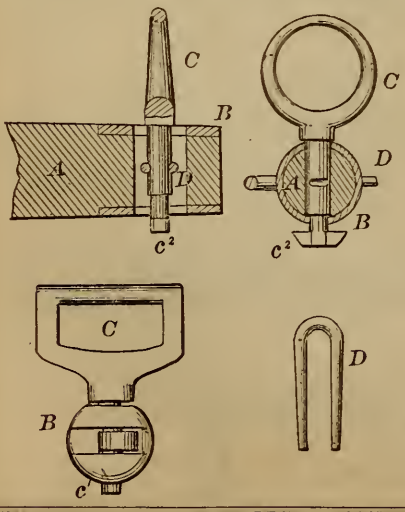
81400—M. P. Noel—*Sawing Machine.*



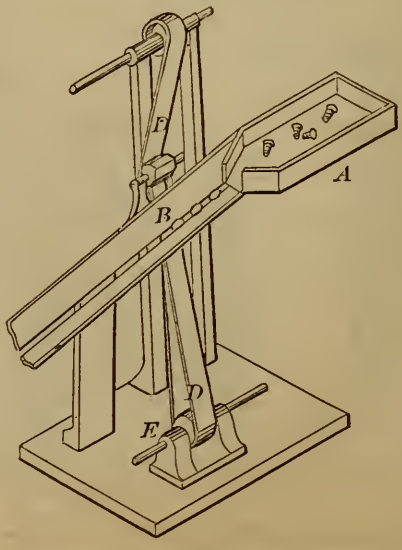
81402—J. Peace—*Pipe Cutter.*



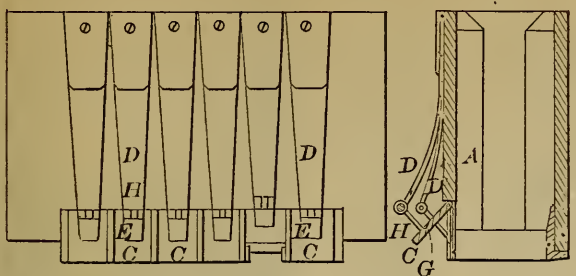
81403—T. Peck—*Trace Fastener.*



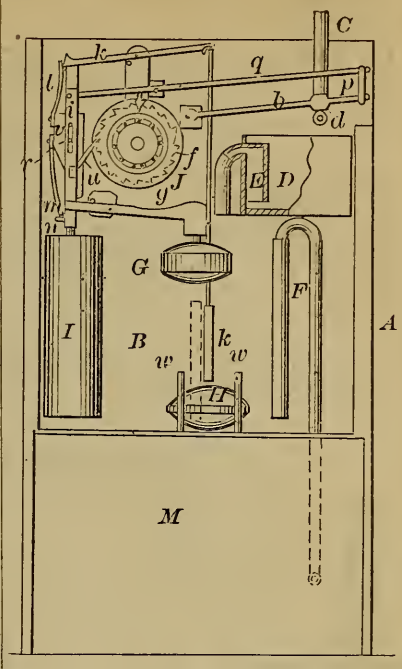
81404—E. S. Pierce—*For Feeding Screw Blanks.*



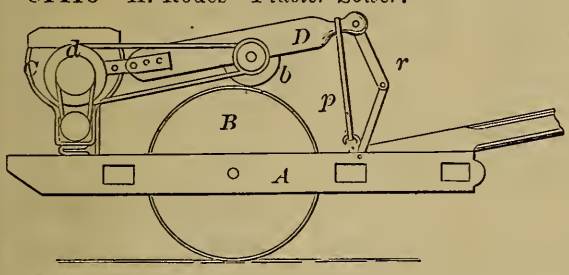
81405—B. Porter—*Brick Mould Safety Guard.*

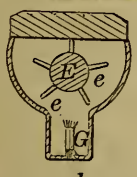


81408—C. H. Riggs—*Liquid Meter.*

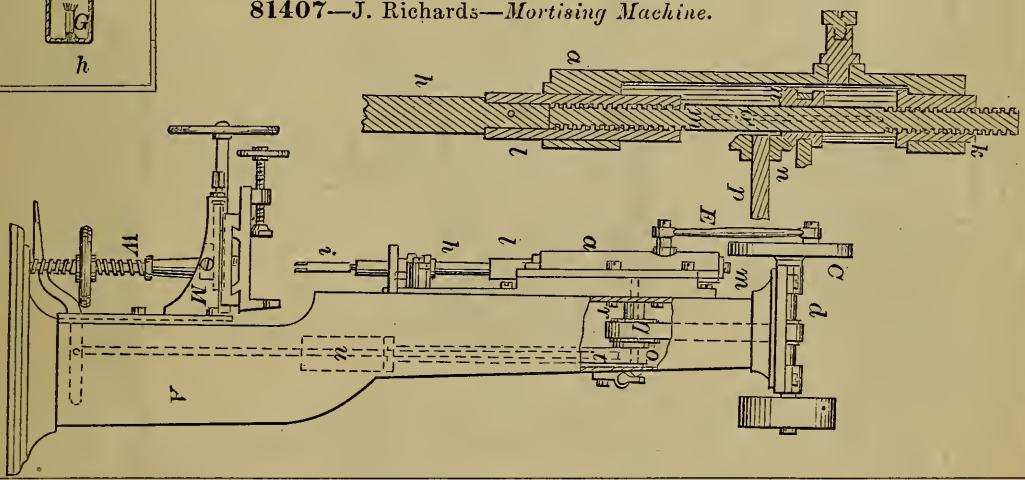


81410—H. Rodes—*Plaster Sower.*

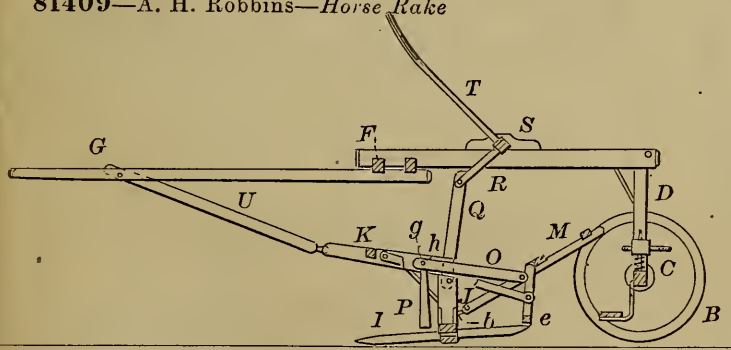




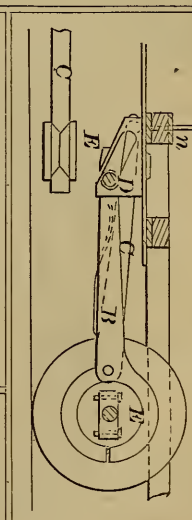
81407—J. Richards—*Mortising Machine.*



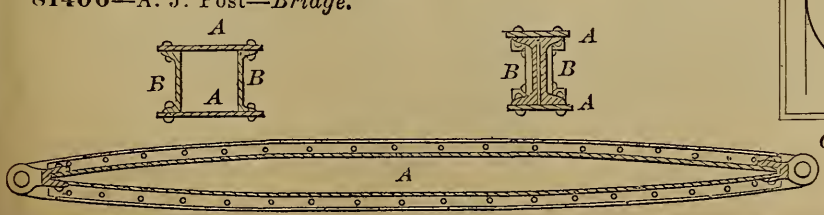
81409—A. H. Robbins—*Horse Rake*



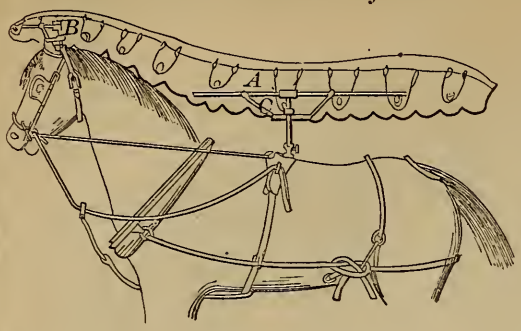
81411—F. Root—*Car Brake.*



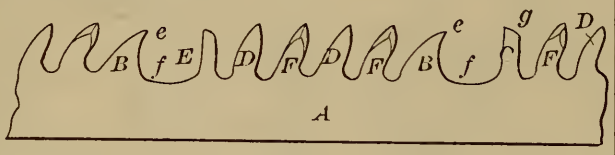
81406—A. J. Post—*Bridge.*



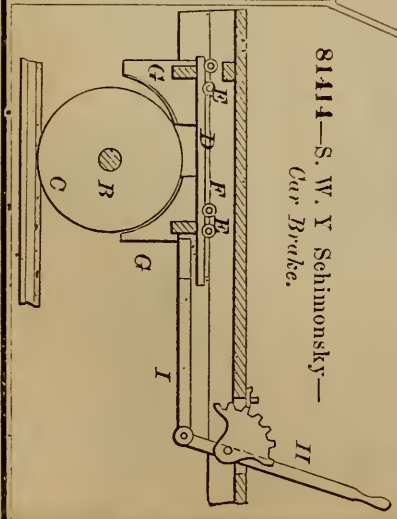
81412—S. Ruth—*Sun Shade for Horses.*



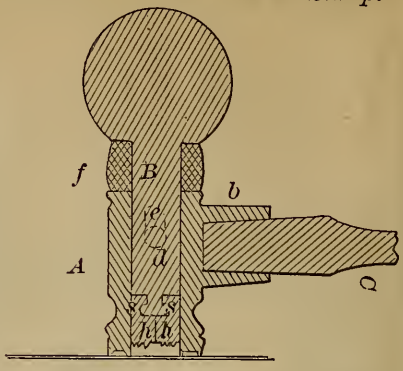
81413—D. Sattler—*Saw.*



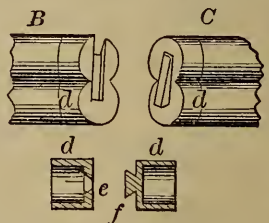
81414—S. W. Y Schimonsky—*Car Brake.*



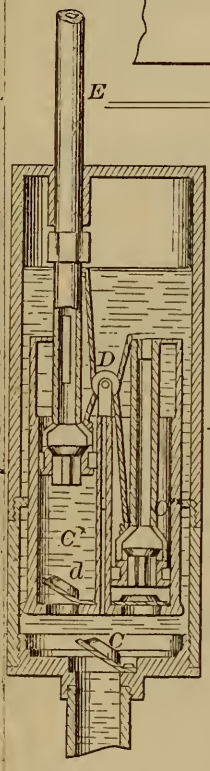
81415—A. Selkirk—*Hand Stamp.*



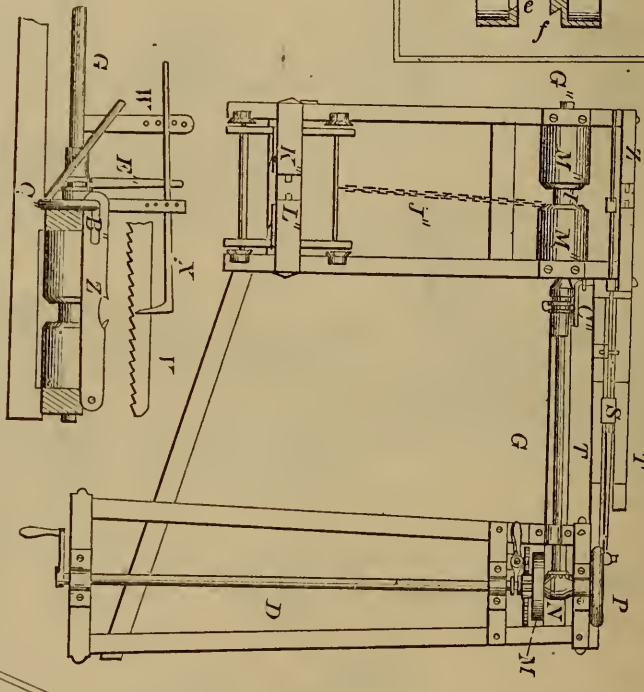
81416—Sharp & Shannon—*Horse Collar Fastening.*



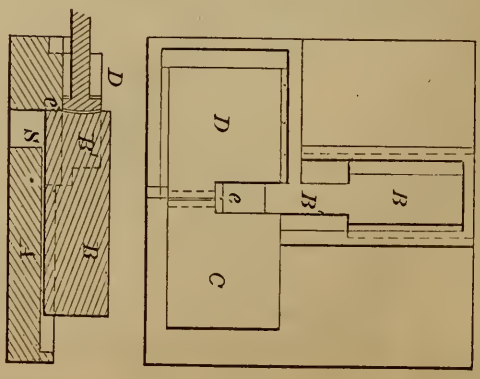
81417—J. Shaw—*Pump.*



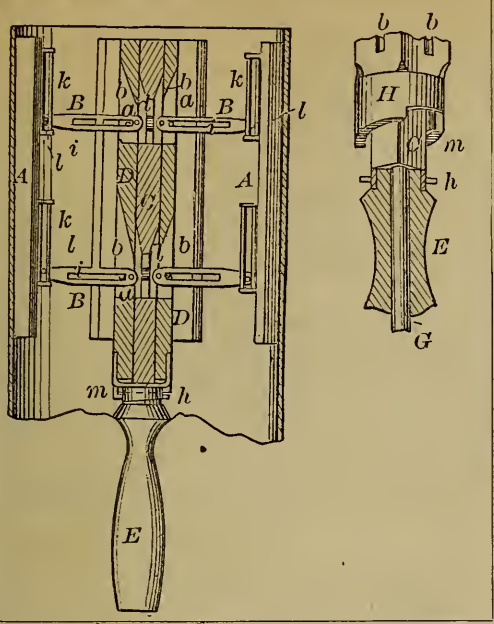
81418—P. L. Shepler—*Sawing Machine.*



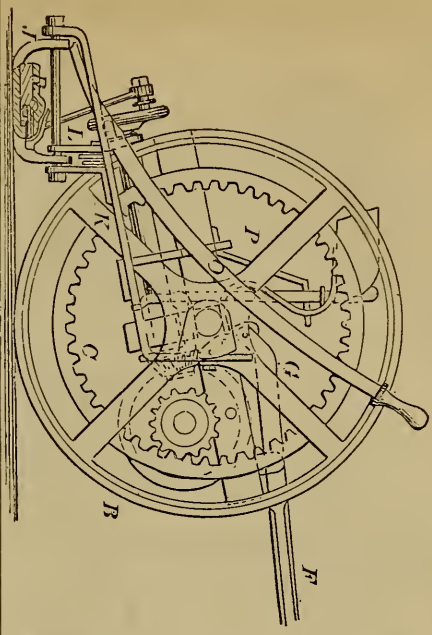
81419—W. Shields—*Die for Bolts.*



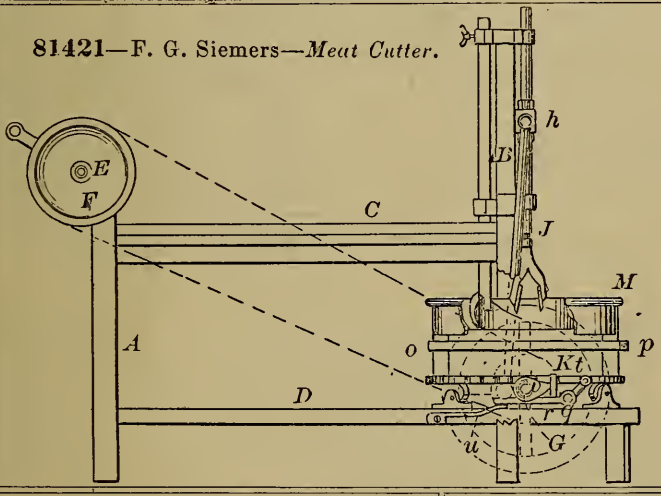
81420—M. M. Shur—*For Soldering Cans.*

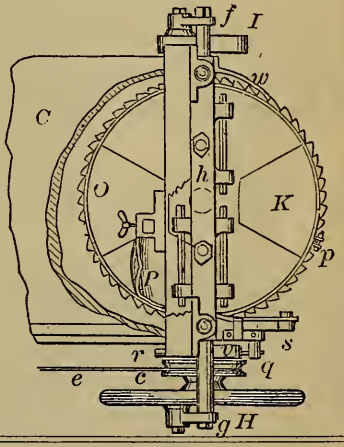


81423—A. Smith—*Harvester.*

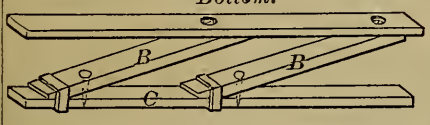


81421—F. G. Siemers—*Meat Cutter.*

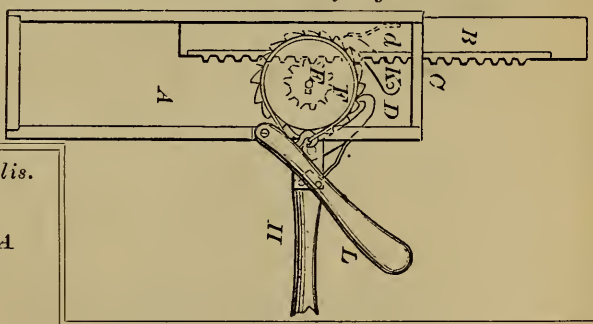




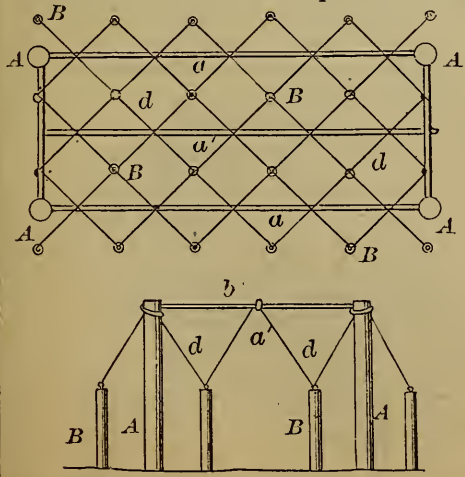
81422—P. Sisson—*Spring Bed Bottom.*



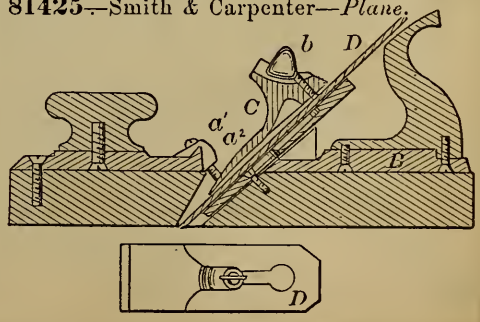
81424—C. A. Smith—*Lifting Jack.*



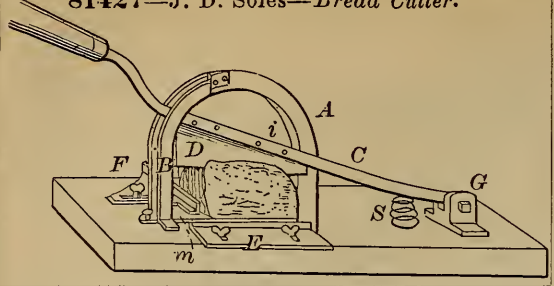
81426—Y. W. Smith—*Hop Vine Trellis.*



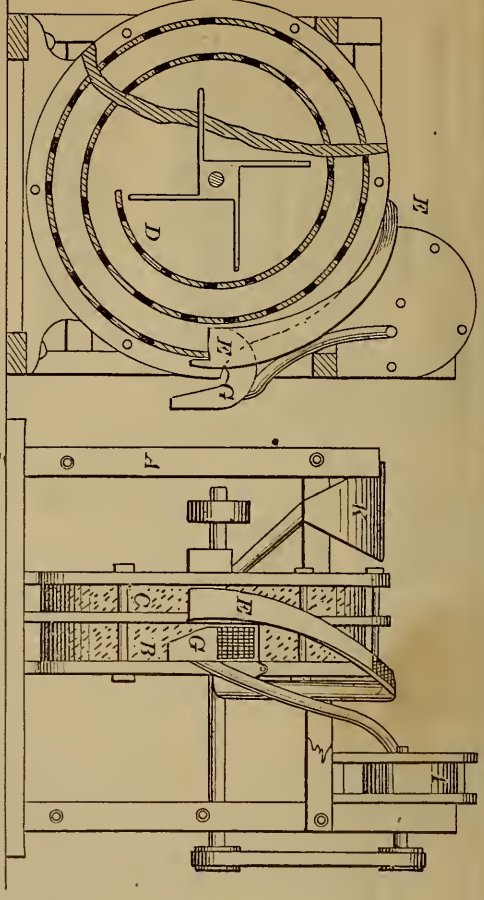
81425—Smith & Carpenter—*Plane.*



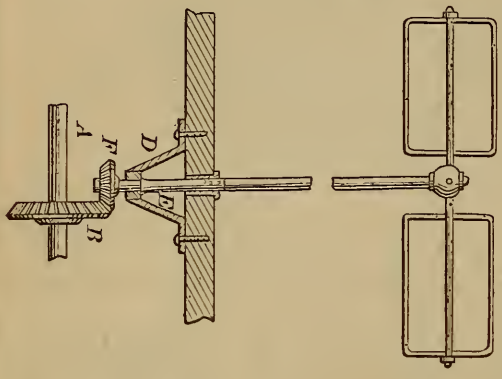
81427—J. D. Soles—*Bread Cutter.*



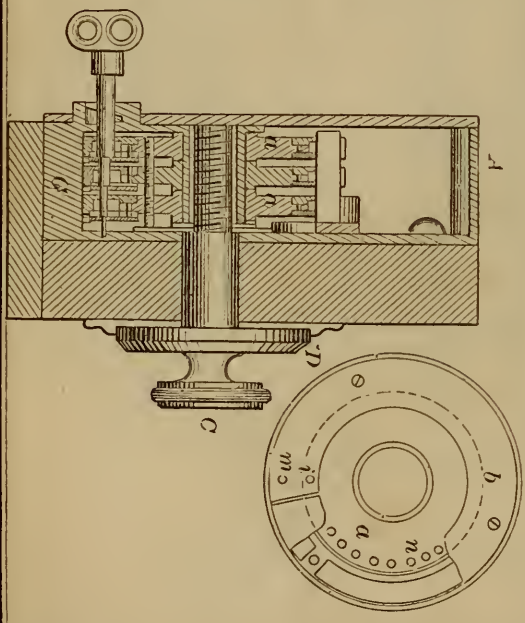
81428—H. Stanley—*Smut Machine.*



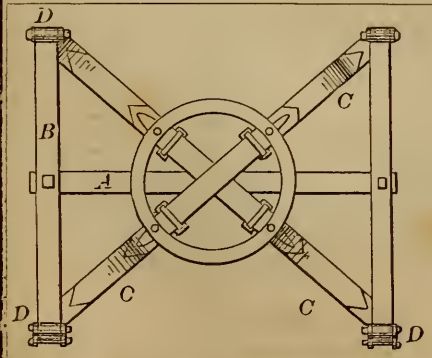
81429—J. H. Stone—*Sewing Machine Fan.*



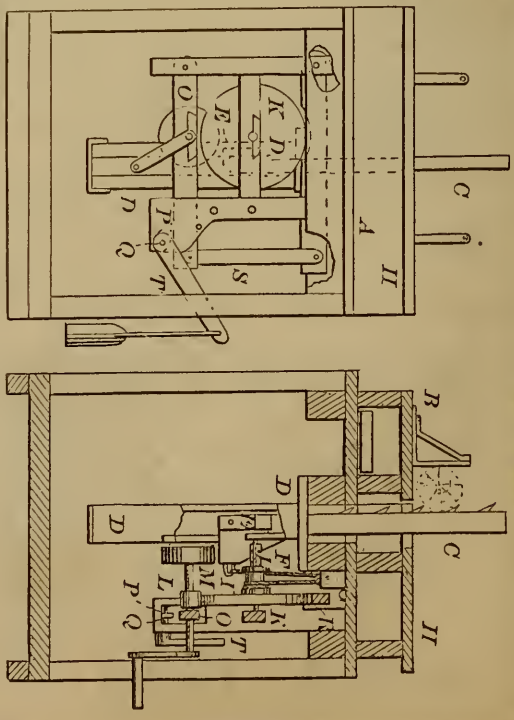
81430—T. J. Sullivan—*Permutation Lock.*



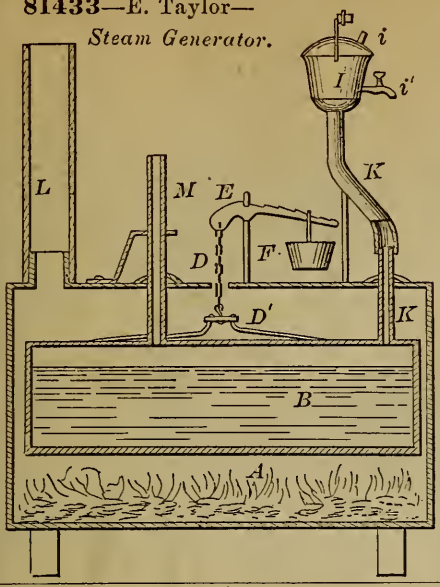
81431—C. D. Sutton—*Vehicle Springs.*



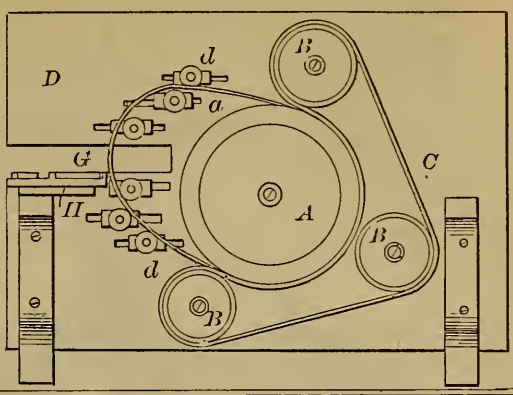
81432—E. Tarrant—*For Turning Logs in Saw Mills.*



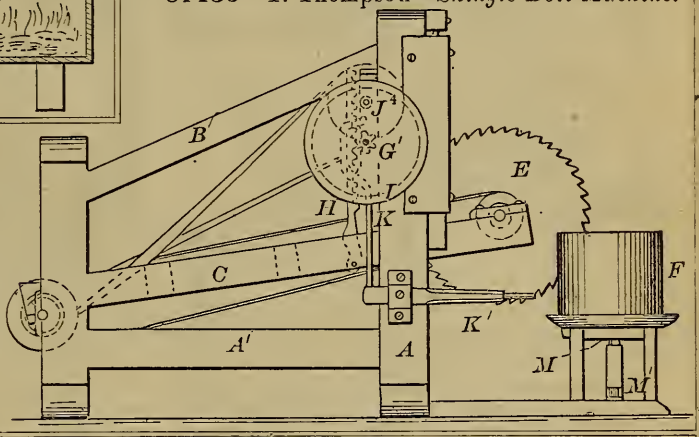
81433—E. Taylor—*Steam Generator.*



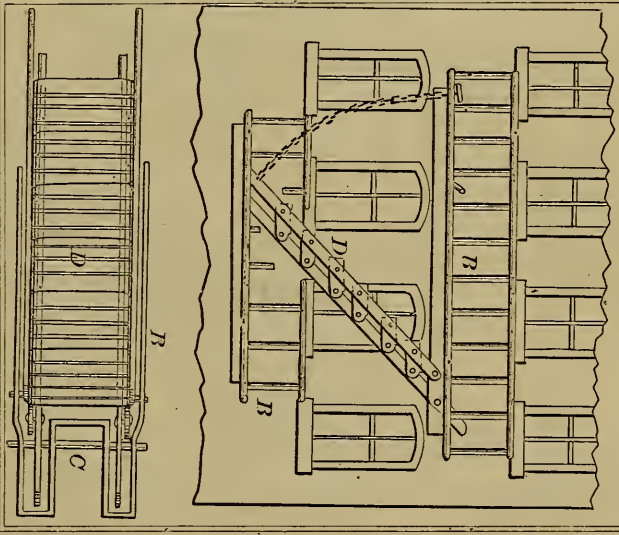
81434—G. Thompson—*Belt Saw.*



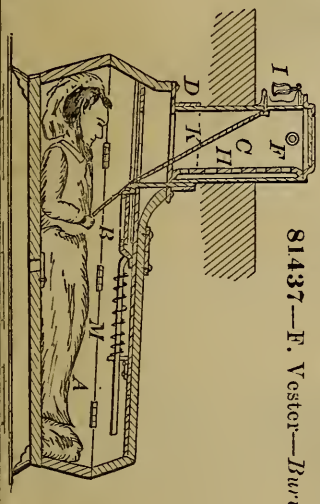
81435—T. Thompson—*Shingle Bolt Machine.*



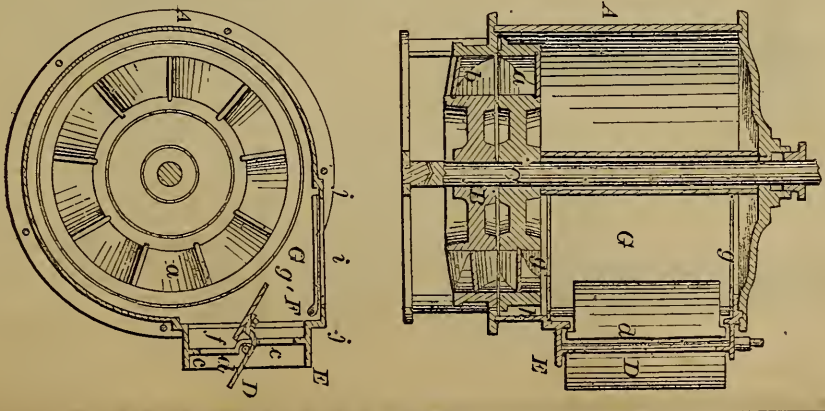
81436—T. Tompson, Jr.—*Fire Escape.*



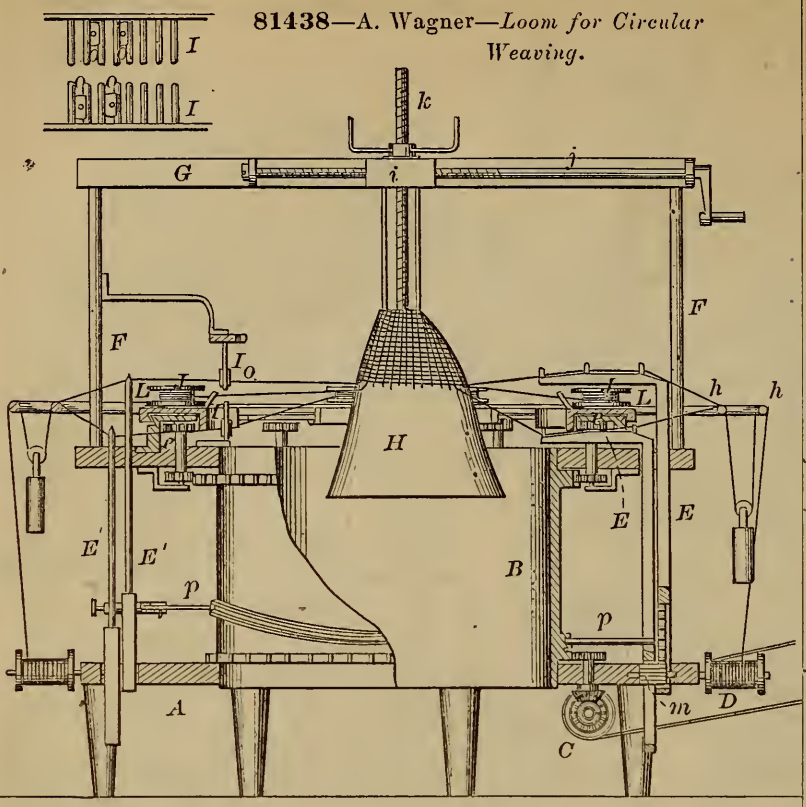
81437—E. Yester—*Burial Case.*



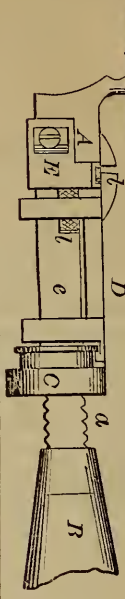
81439—P. H. Wait—*Water Wheel Curb.*



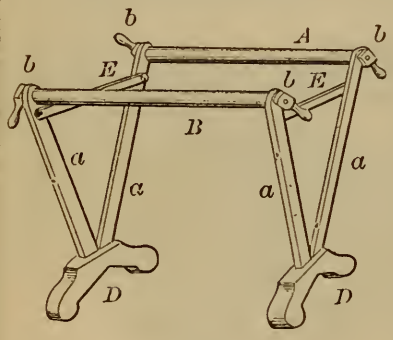
81438—A. Wagner—*Loom for Circular Weaving.*

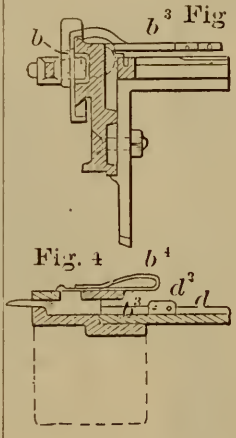


81442—W. B. Weaver—*Saw Set.*

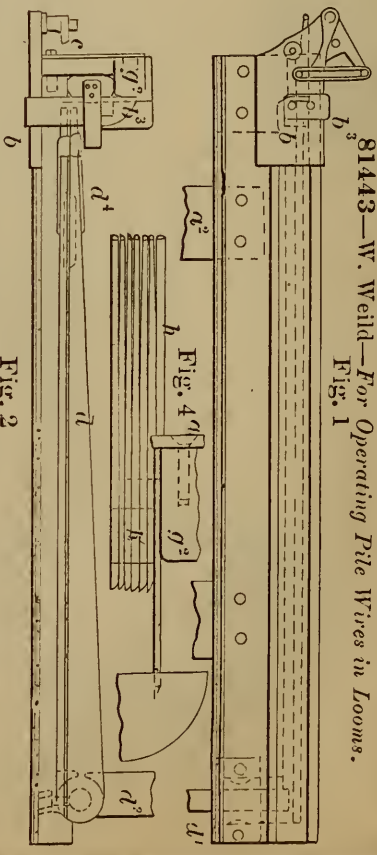


81440—D. F. Wallace—*Quilting Frame.*

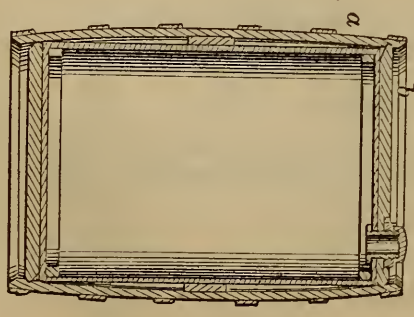




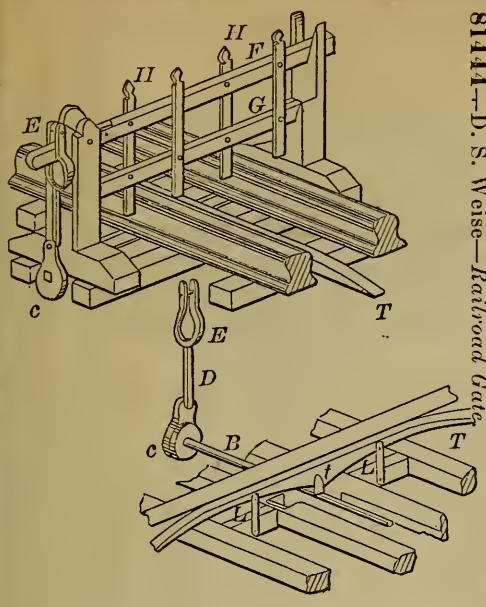
81443—W. Weild—*For Operating Pile Wires in Looms.*



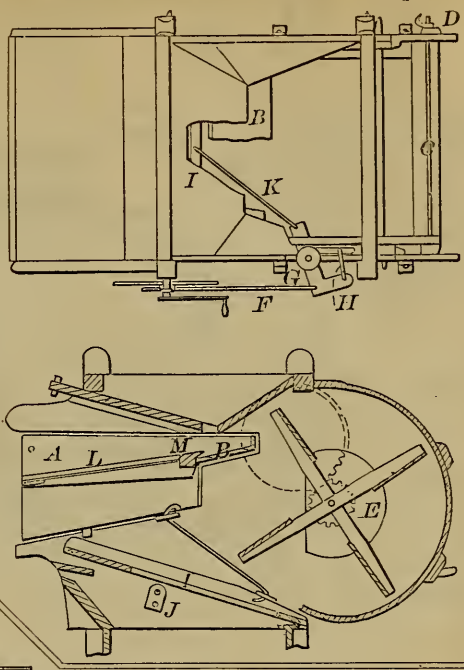
81441—E. Waters—*For Holding Petroleum.*



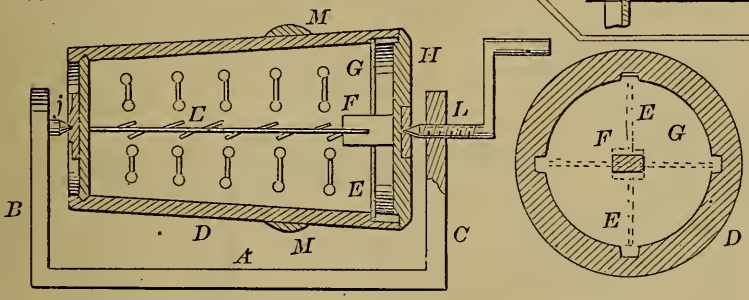
81444—D. S. Weise—*Railroad Gate.*



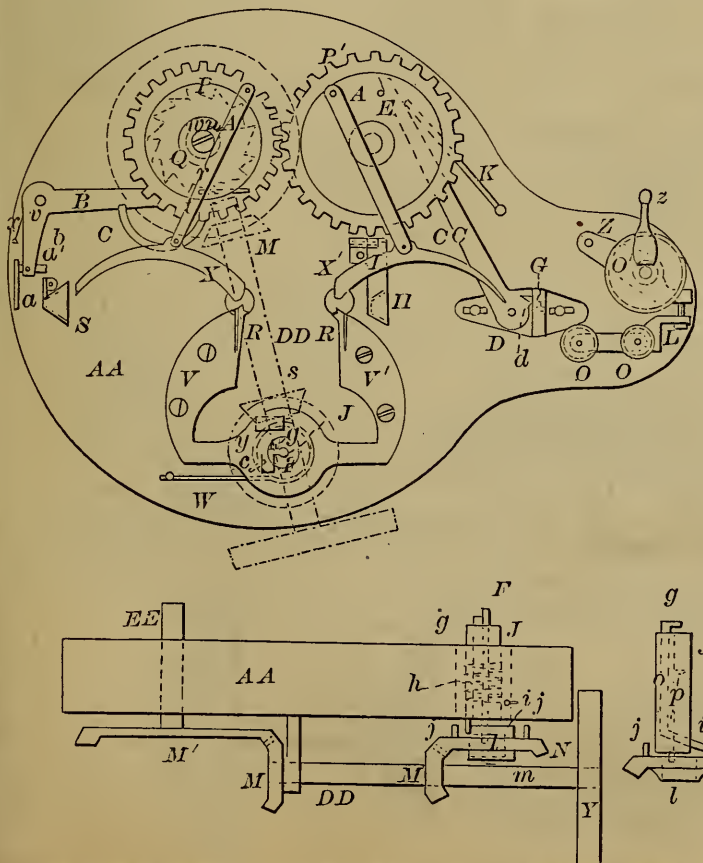
81448—M. D. Williams—*Grain Separator.*



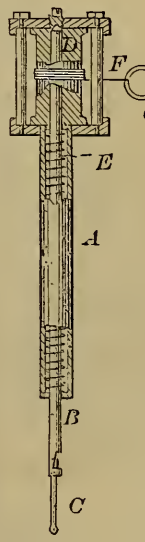
81445—C N. White—*Churn.*



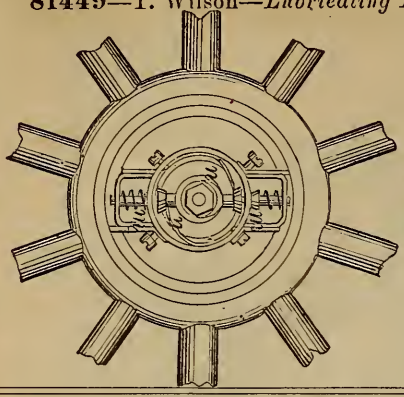
81447—H. C. Wilder—*Rail Making Machine.*

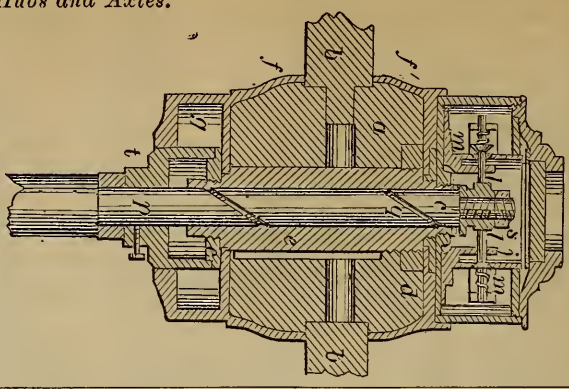


81450—A. Wirsching—*Watchmakers' Drill.*

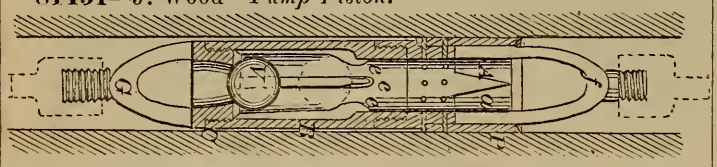


81449—T. Wilson—*Lubricating Hubs and Axles.*

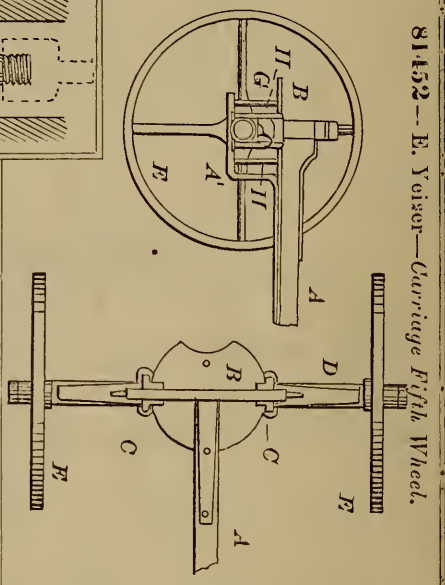




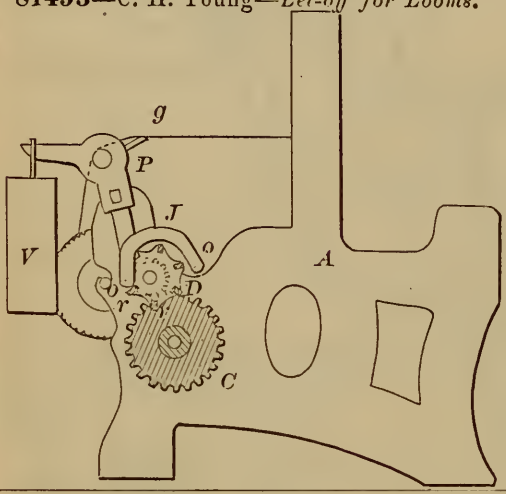
81451—J. Wood—*Pump Piston.*



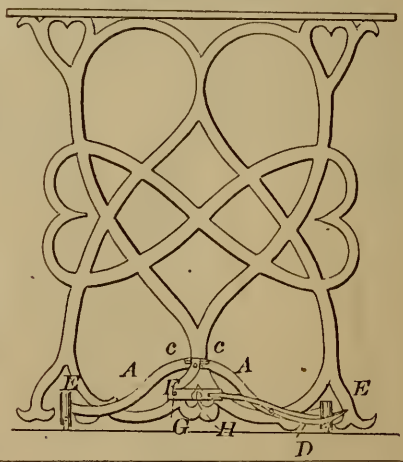
81452—E. Yeiser—*Carriage Fifth Wheel.*



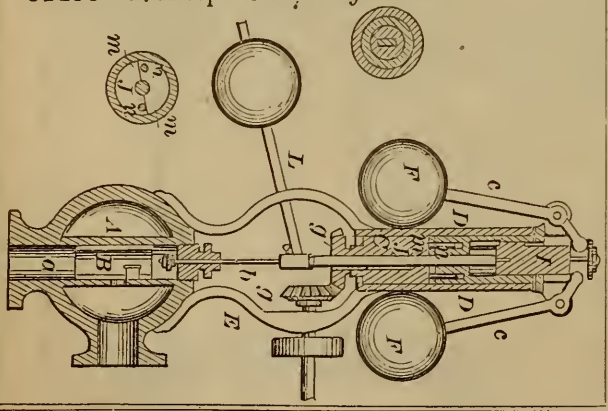
81453—C. H. Young—*Let-off for Looms.*



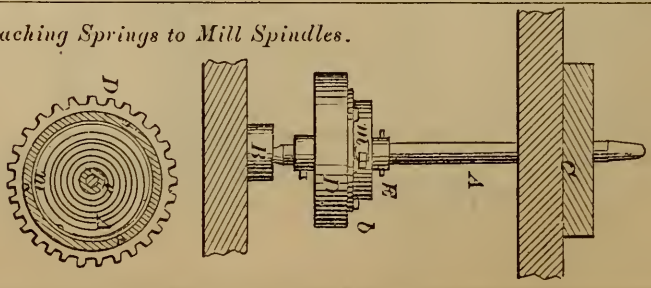
81454—L. O. Allen—*Sewing Machine Caster.*



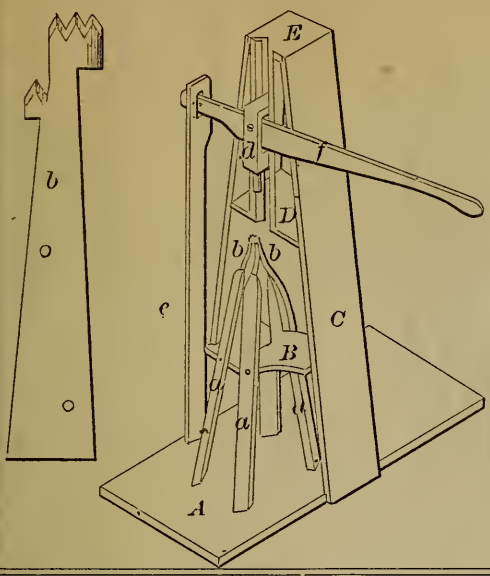
81455—T. Alsop—*Steam Engine Governor.*



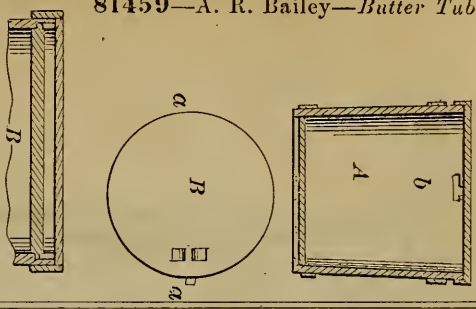
81456—T. Alsop—*Attaching Springs to Mill Spindles.*



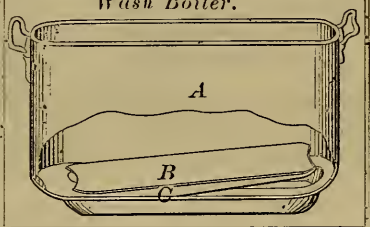
81458—D. Bacon—*Corn Sheller.*



81459—A. R. Bailey—*Butter Tub.*

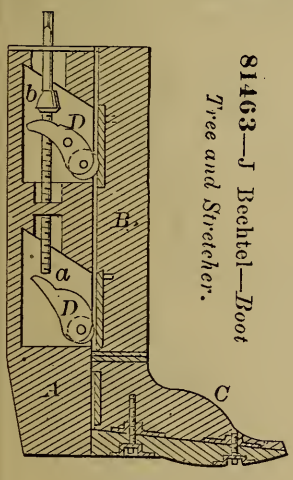


81460—Ball & Phelps—*Wash Boiler.*

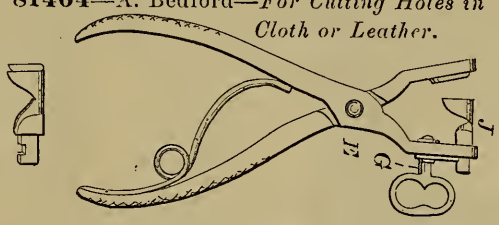


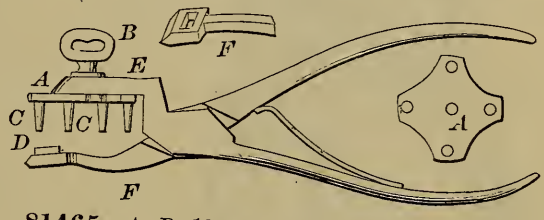
81461—T. Bardon—*Engravers' Plate.*

81463—J. Bechtel—*Boot Tree and Stretcher.*



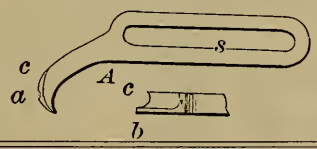
81464—A. Bedford—*For Cutting Holes in Cloth or Leather.*



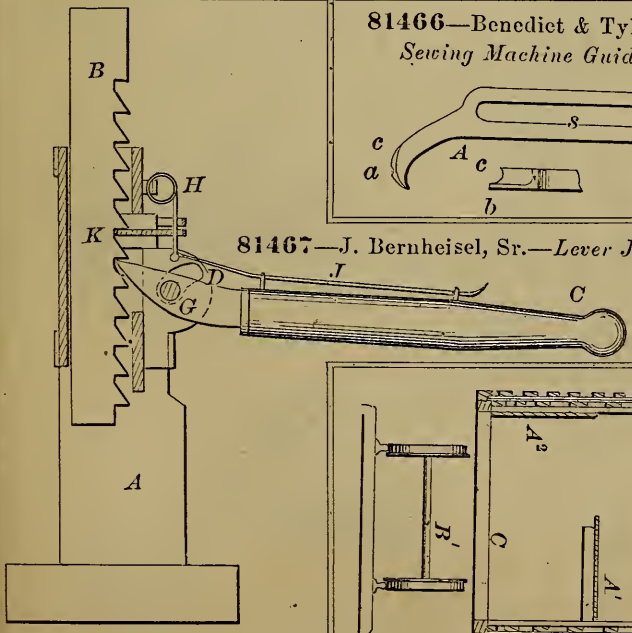


81465—A. Bedford—*Rotary Punch.*

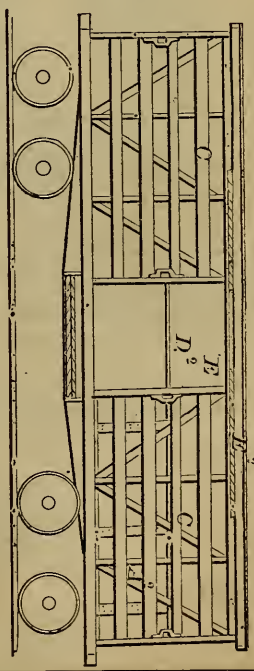
81466—Benedict & Tyler—*Sewing Machine Guide.*



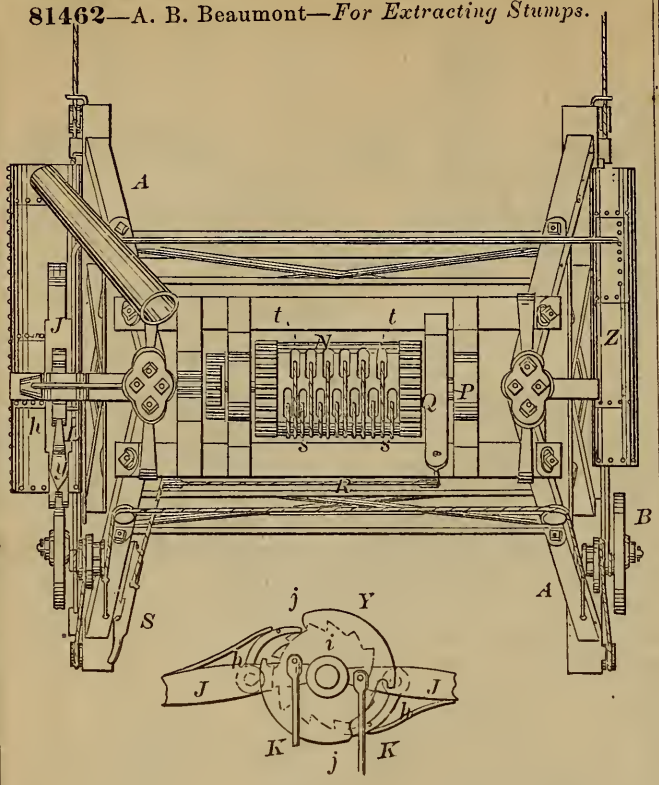
81467—J. Bernheisel, Sr.—*Lever Jack.*

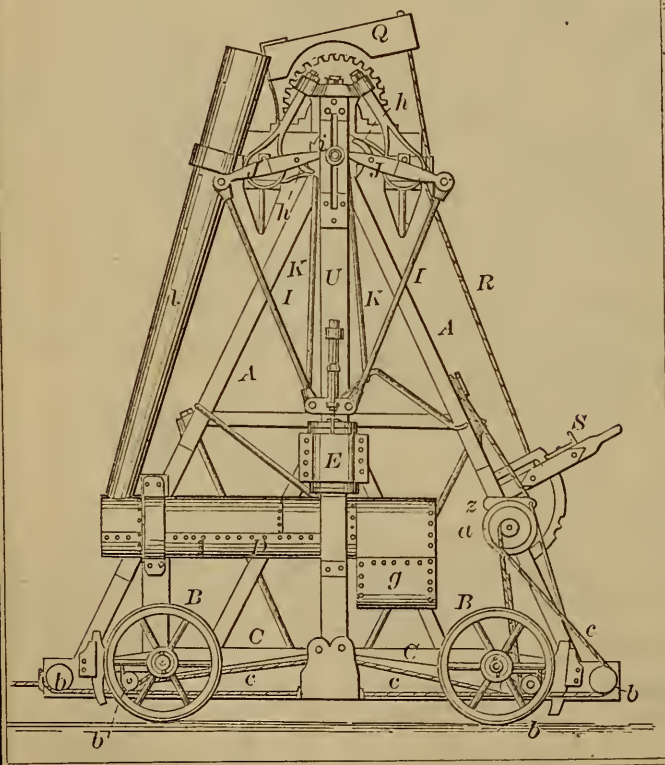


81468—G. R. Blanchard—*Railway Stock Car.*

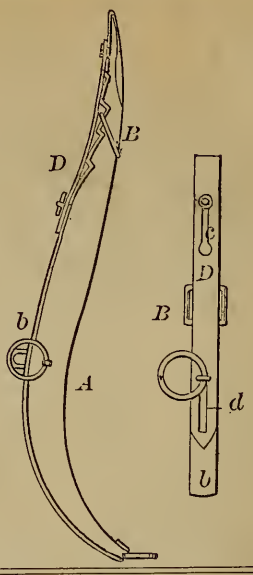


81462—A. B. Beaumont—*For Extracting Stumps.*

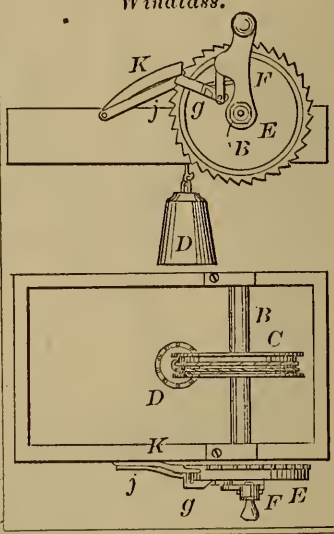




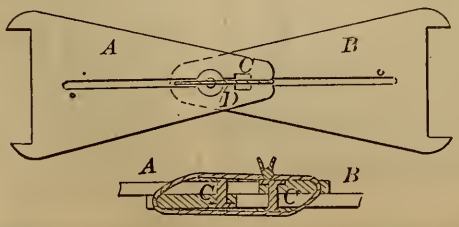
81469—T. G. Brooks—*Hames.*



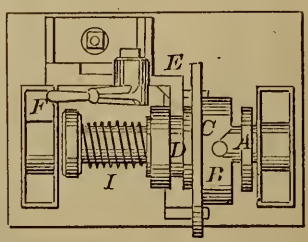
81470—N. B. Brown—*Windlass.*

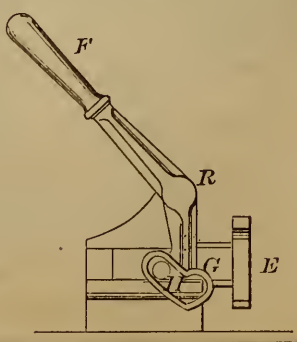


81471—T. F. Brown, Jr.—*Skein Holder.*



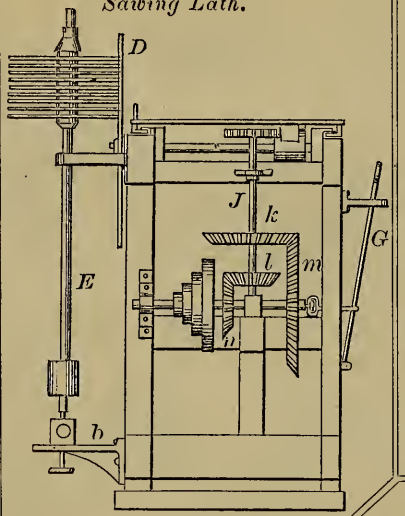
81472—T. S. Brown—*Harvester.*



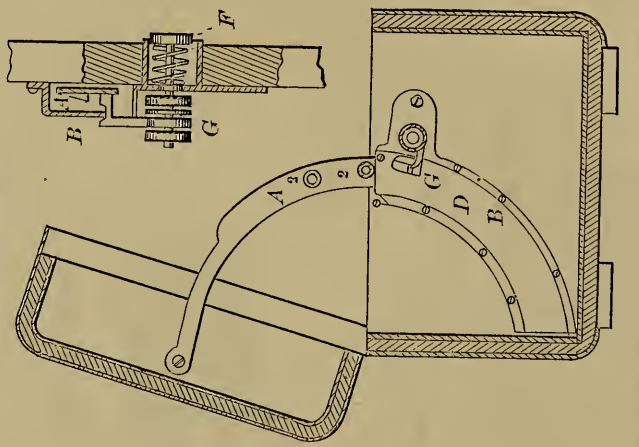


81474—Bryson & Hartsuff—*Water Wheel Curb.*

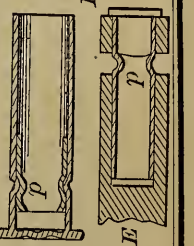
81475—W. G. Bulgin—*For Sawing Lath.*



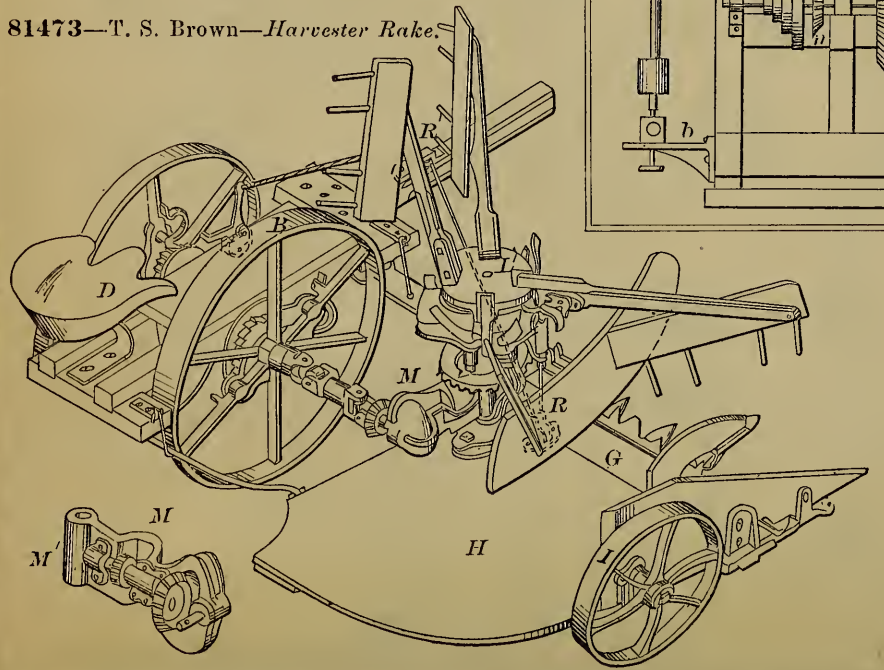
81477—P. Cohen—*Trunk Lid Supporter.*



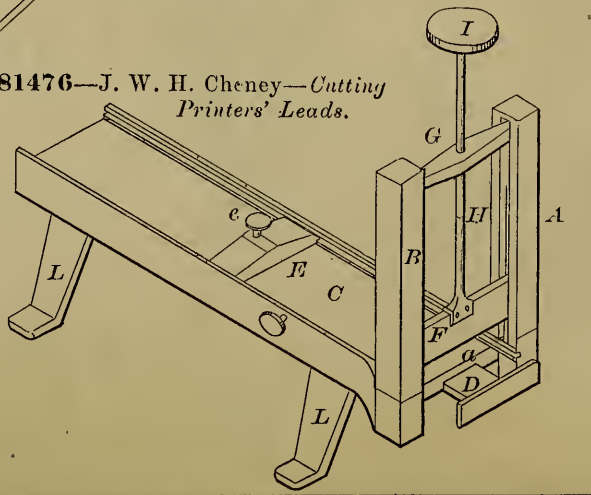
81478—J. F. Cranston—*Cartridge Shell.*



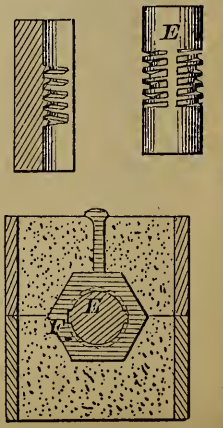
81473—T. S. Brown—*Harvester Rake.*



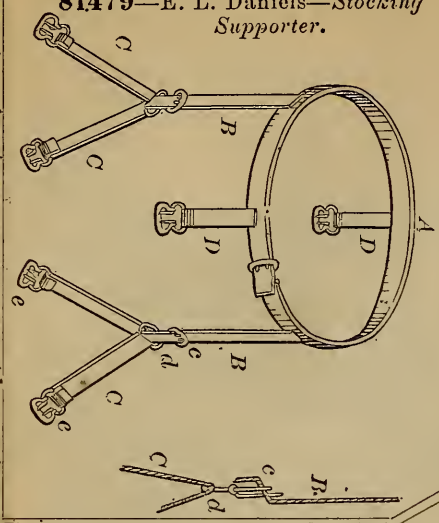
81476—J. W. H. Cheney—*Cutting Printers' Leads.*



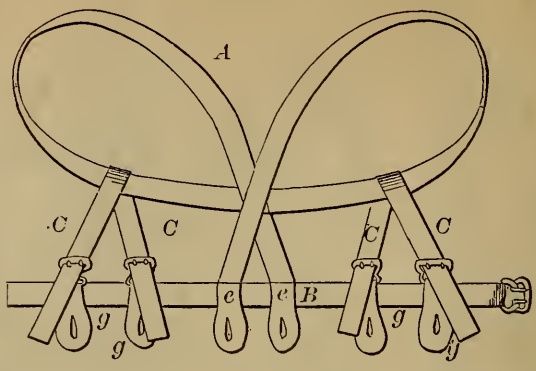
81480—G. P. Darrow—*Cast Nut.*



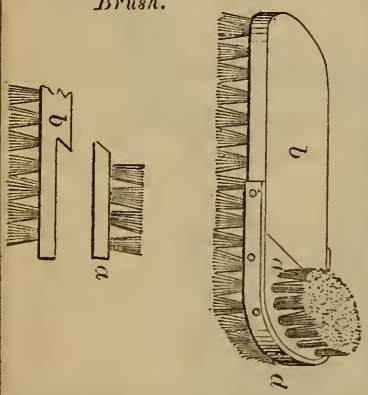
81479—E. L. Daniels—*Stocking Supporter.*



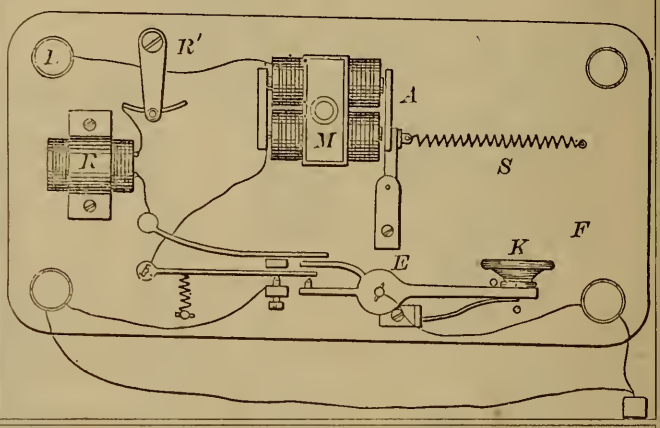
81482—A. M. Eaton—*Shoulder Brace and Suspender.*



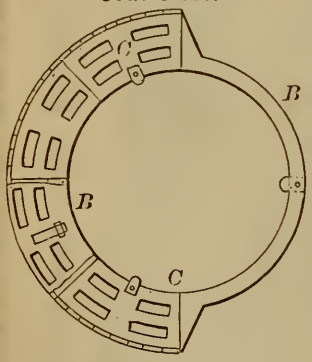
81481—C. D. Day—*Blacking Brush.*



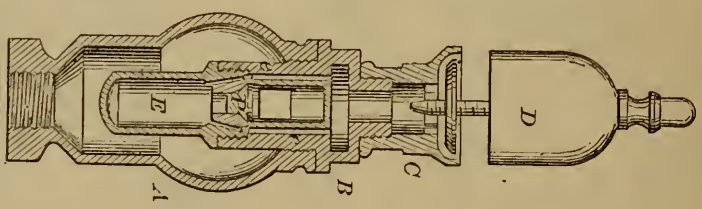
81485—M. G. Farmer—*Magnetic Telegraph.*



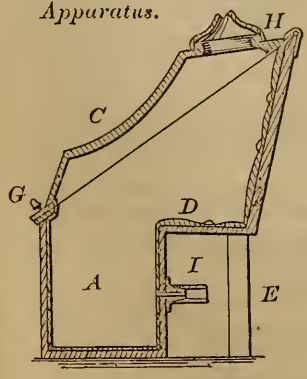
81484—J. Fahrney—*Coal Stove.*



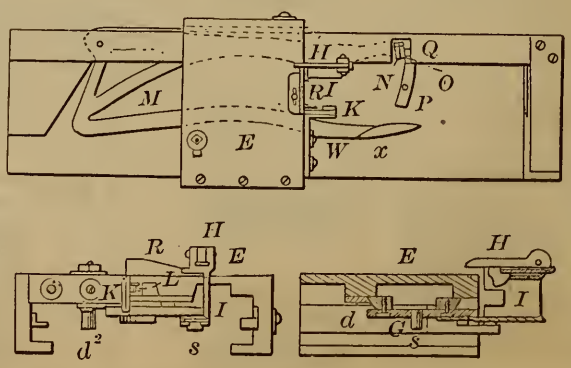
81483—Eiswald & Barbour—*Low Water Indicator.*



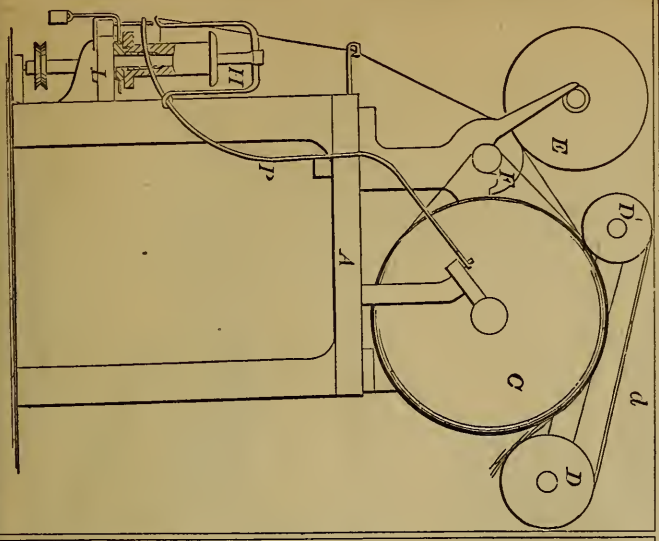
81488—T. Travel—*Vacuum Apparatus.*



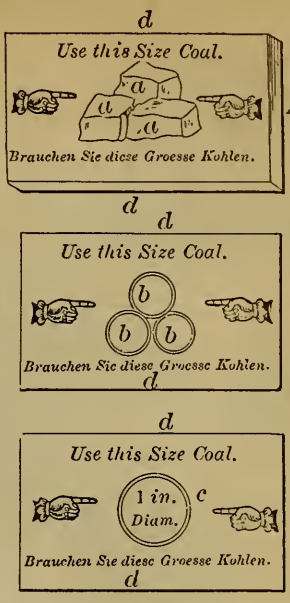
81487—L. Ferguson—*Loom for Weaving Pile Fabrics.*



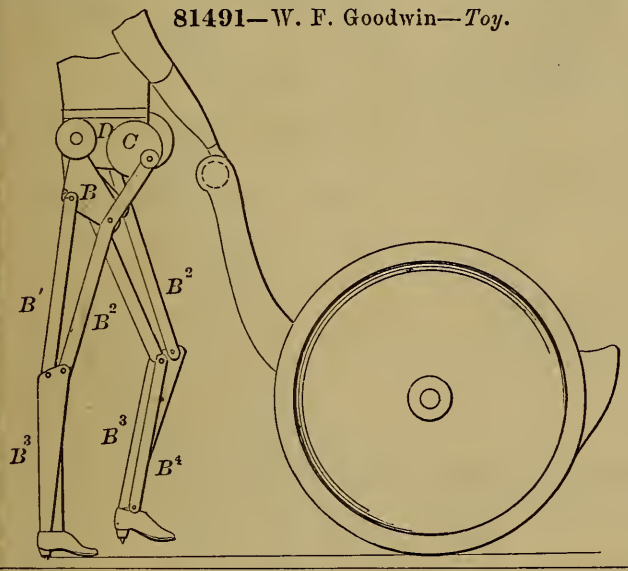
81489—J. B. Fuller—*Drawing Fibrous Substances.*



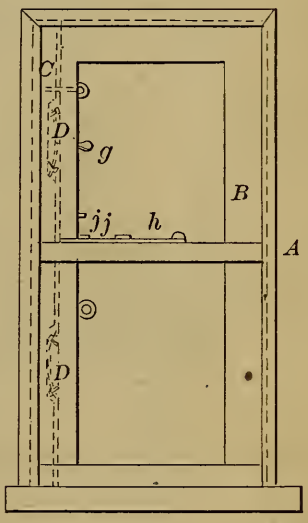
81490—J. Gibson, Jr.—*Fuel Size Indicator.*



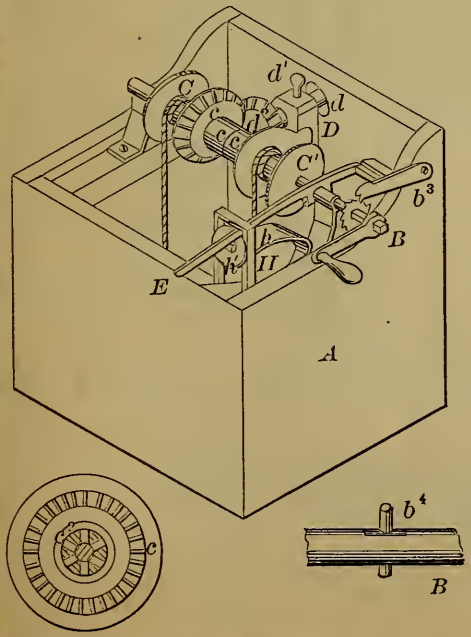
81491—W. F. Goodwin—*Toy.*



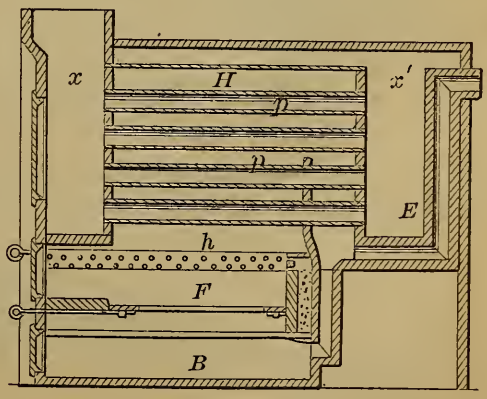
81493—H. Gross—*Window Sash.*



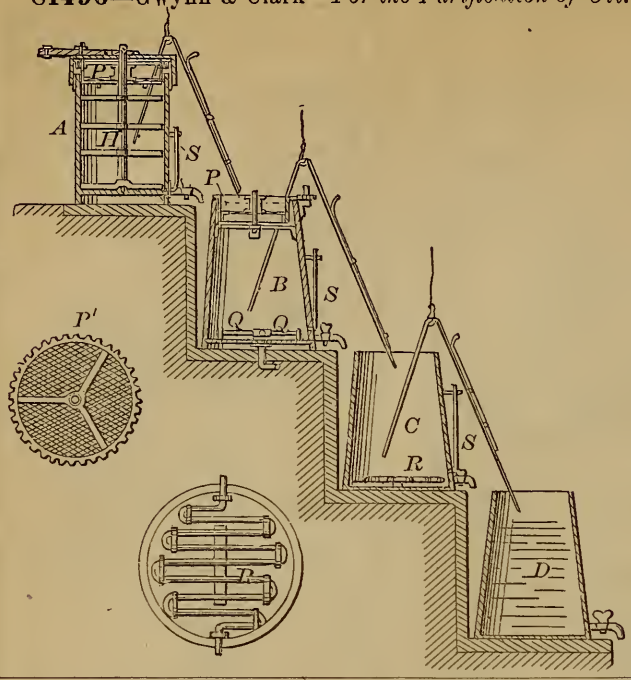
81494—J. Gruey—*Water Elevator.*



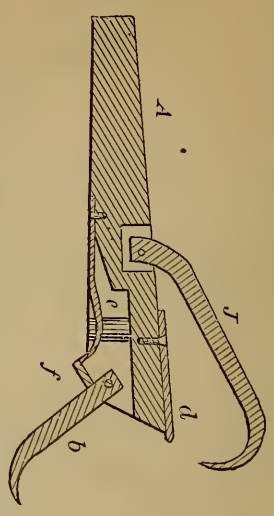
81492—C. B. Gregory—*Hot Air Furnace.*



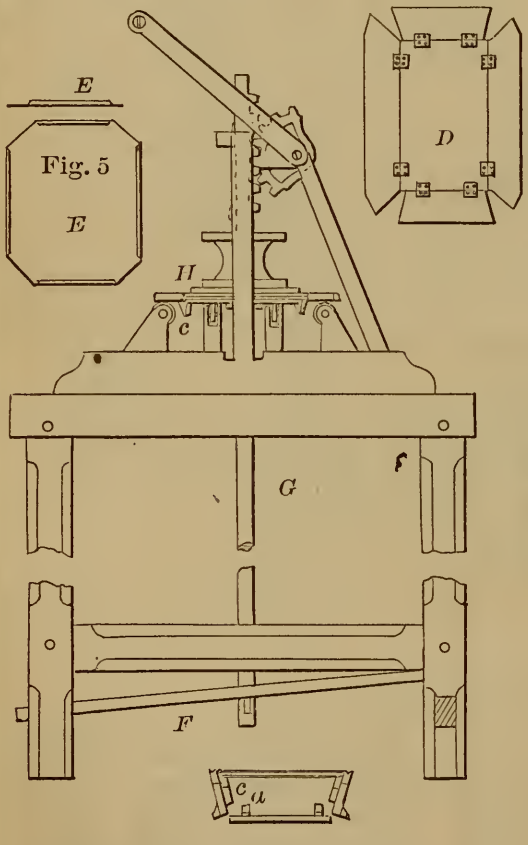
81496—Gwynn & Clark—*For the Purification of Oil.*



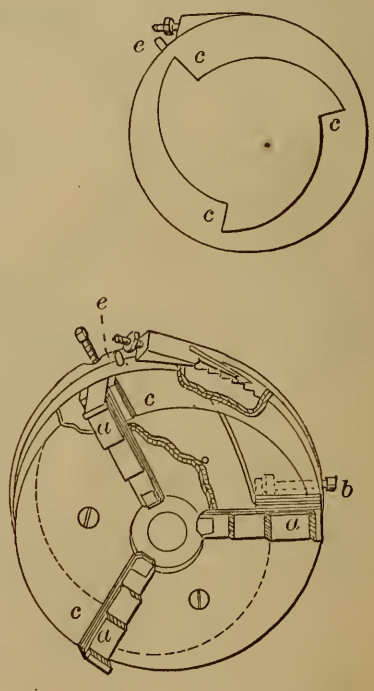
81497—H. H. Hall—*Box Opener*



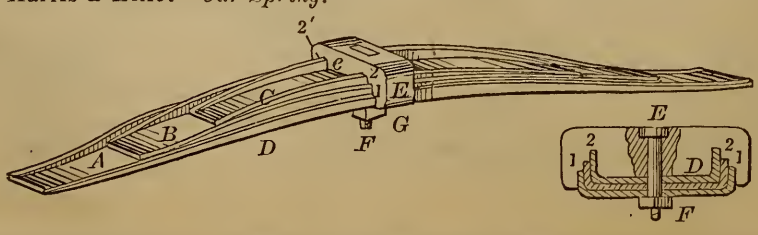
81498—W. Hamilton—*Pan Folding Machine.*



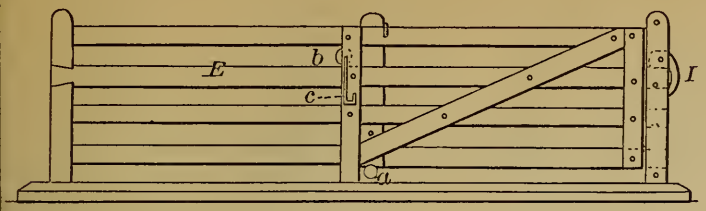
81500—B. Haviland—*Chuck.*



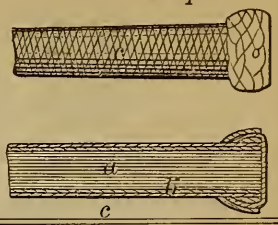
81499—Harris & Elliot—*Car Spring.*



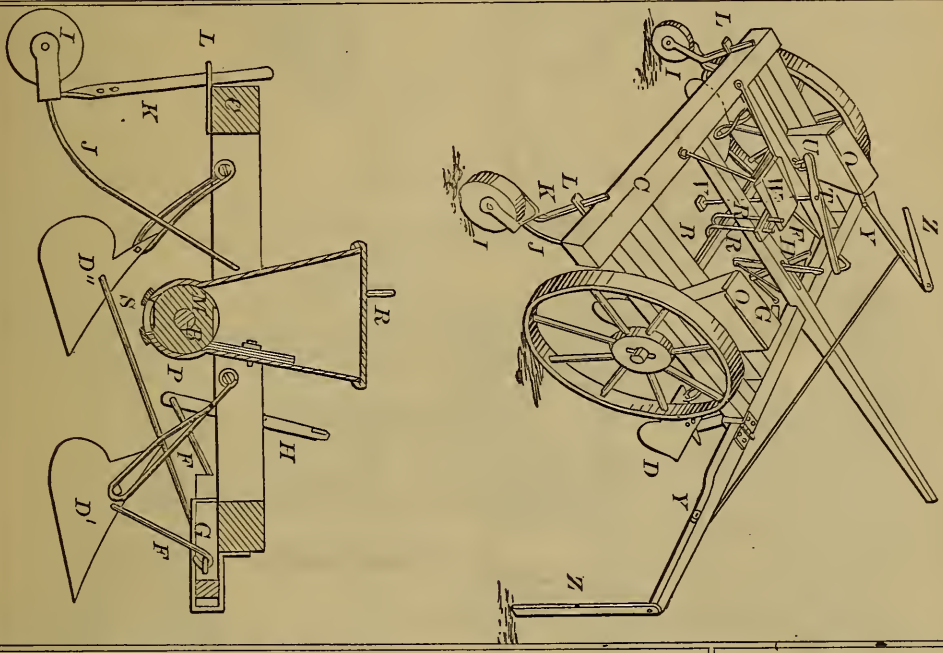
81501—H. A. Henderson—*Gate.*



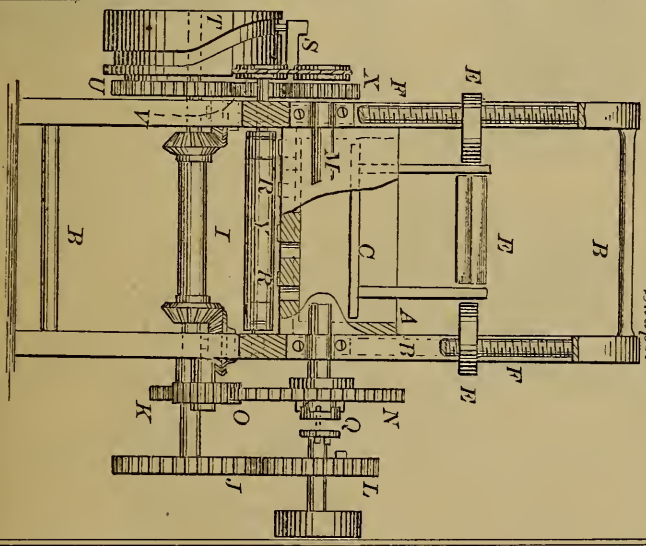
81507—L. Hull—*India Rubber Whip.*



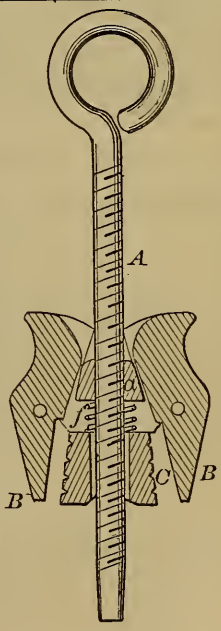
81502—Herrington & Richards—*Corn Planter.*



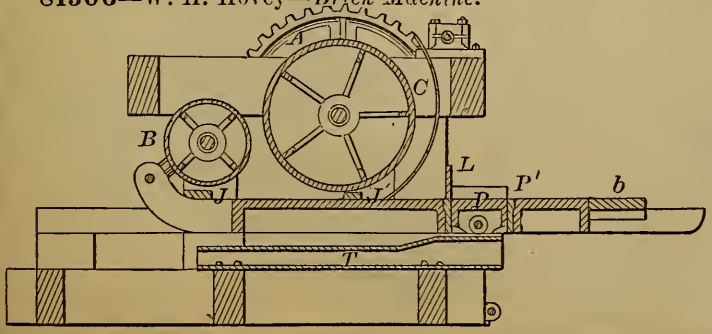
81505—D. M. Holmes—*For Making Ginger Snaps.*



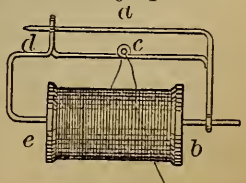
81503—L. Hill—*Crimping Clamp.*



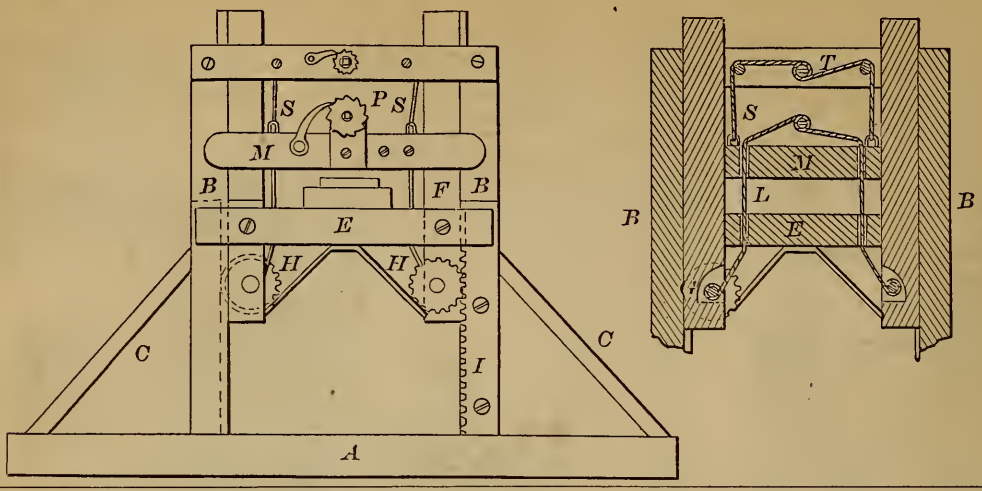
81506—W. H. Hovey—*Brick Machine.*



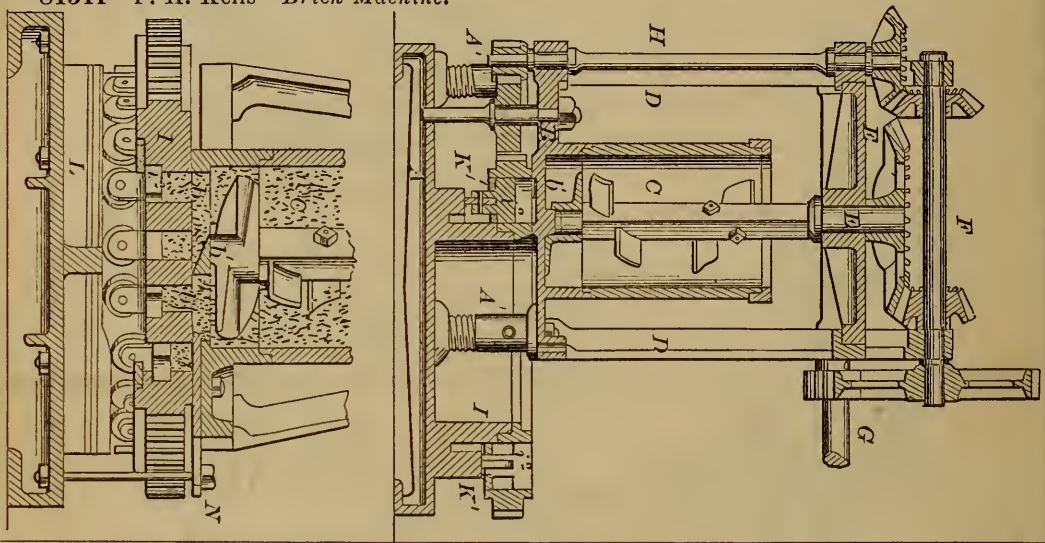
81504—L. F. Hobbs—*For Holding Spools.*



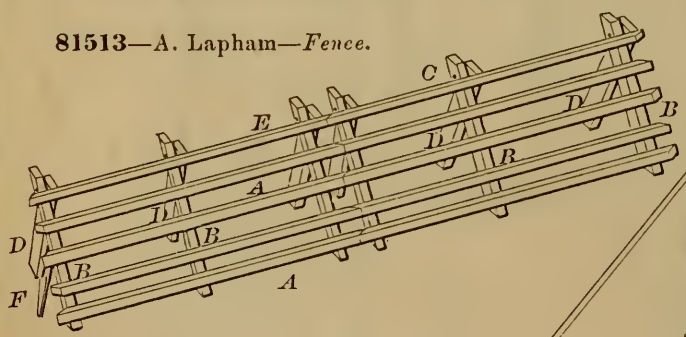
81509—S. Y. Ives—*Cheese Press.*



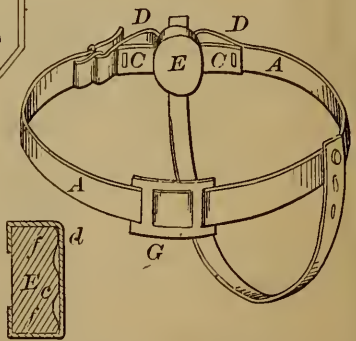
81511—P. H. Kells—*Brick Machine.*



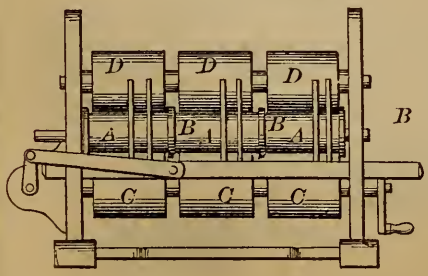
81513—A. Lapham—*Fence.*



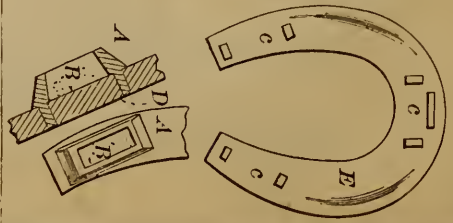
81510—A. F. Jennings—*Abdominal Supporter.*



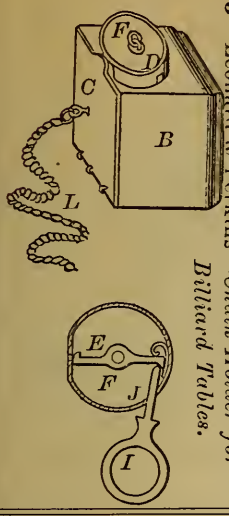
81514—W. & J. Leach—*Winding Frame for Carding Engines.*



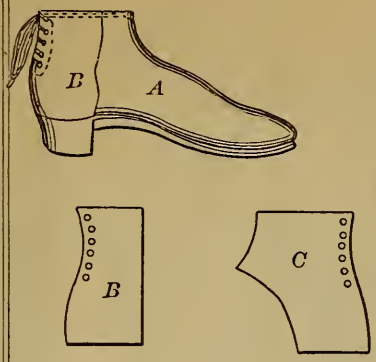
81512—A. E. Kroger—*Horse Shoe.*



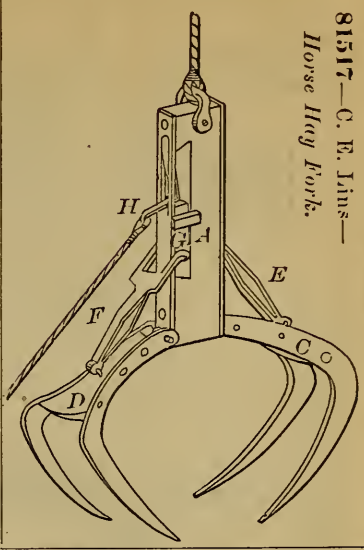
81515—Leonard & Perkins—*Chalk Holder for Billiard Tables.*



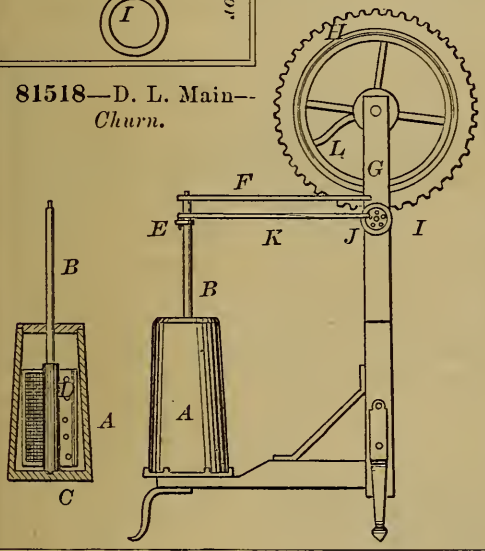
81516—Lester & Cardwell—*Shoe.*



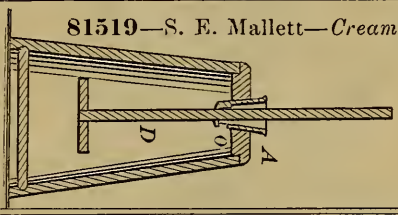
81517—C. E. Jins—*Horse Hay Fork.*



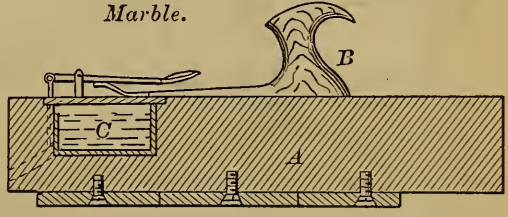
81518—D. L. Main—*Churn.*



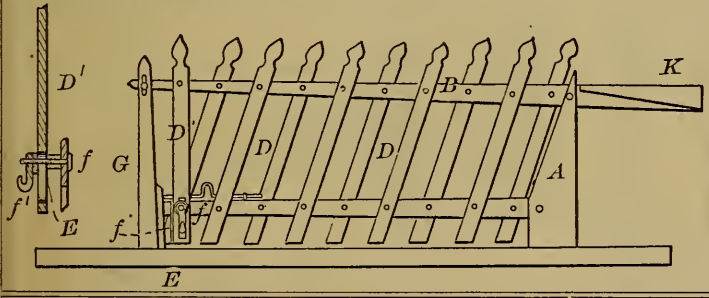
81519—S. E. Mallett—*Cream Saver.*



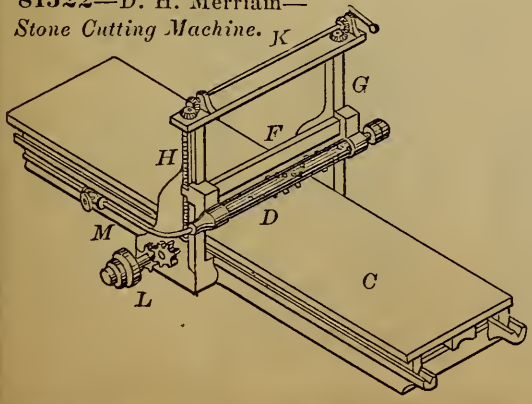
81520—J. C. McAfee—*For Polishing Marble.*



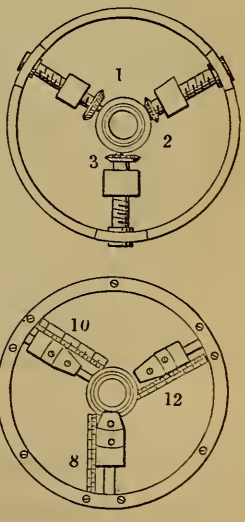
81521—W. McGuire—*Farm Gate.*



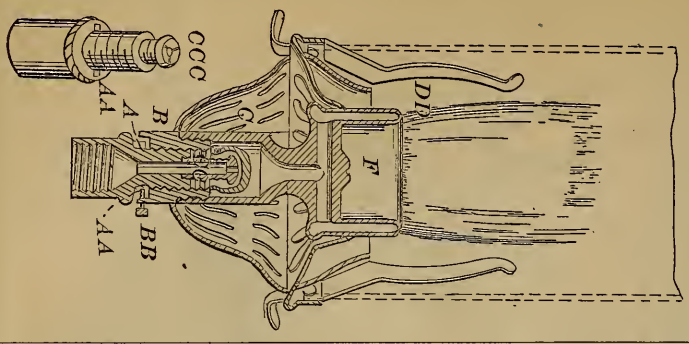
81522—D. H. Merriam—*Stone Cutting Machine.*



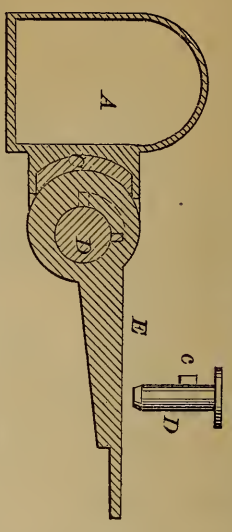
81523—J. S. Moody—*Lathe Chuck.*



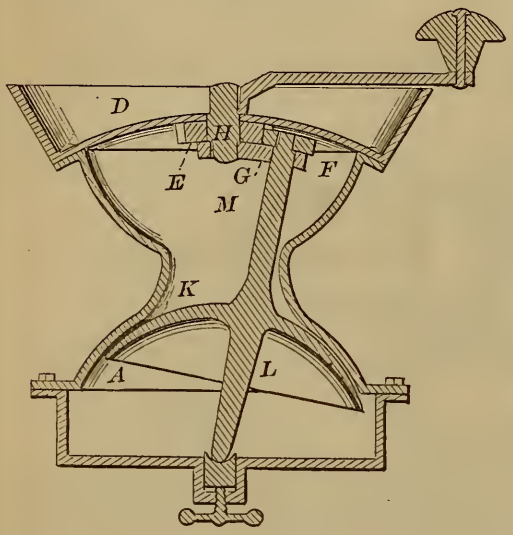
81524—G. Mooney—*Gas Burner.*



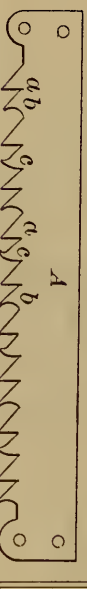
81527—Morrison & Ross—*Thill Coupling.*



81526—J. A. Montgomery—*Grinding Mill.*



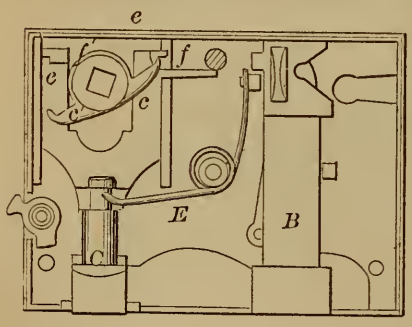
81525—G. B. Montgomery—*Saw.*



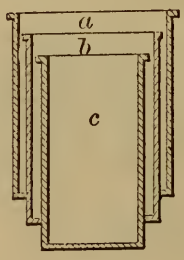
81531—G. B. Perkins—*Floor Clamp.*

81530—T. M. Patterson—*Tool Extractor for Wells.*

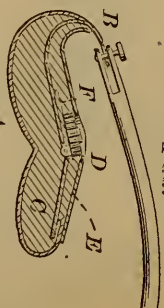
81529—W. A. C. Oaks—*Reversible Knob Latch.*



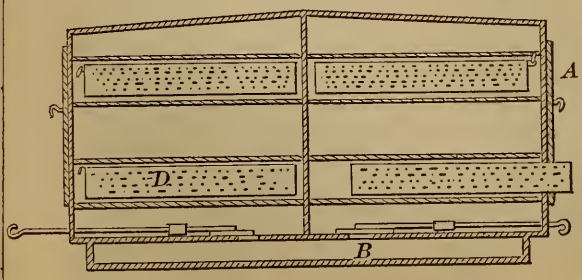
81532—C. W. Perry—*Well Curbing.*



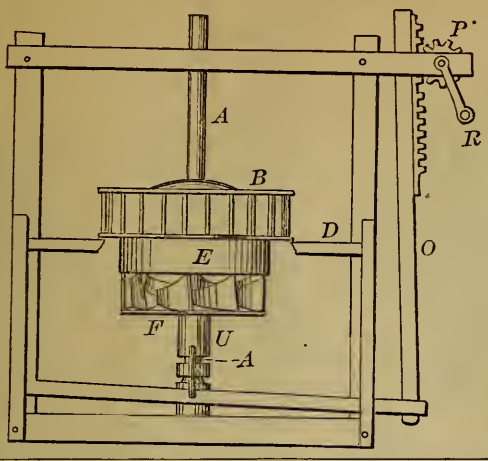
81533—W. Pomeroy—*Hernia Pad.*



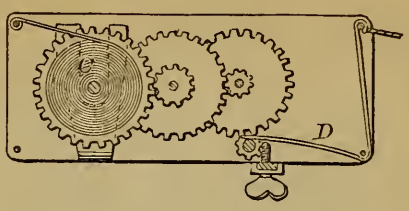
81534—H. Poole—*Culinary Vessel.*

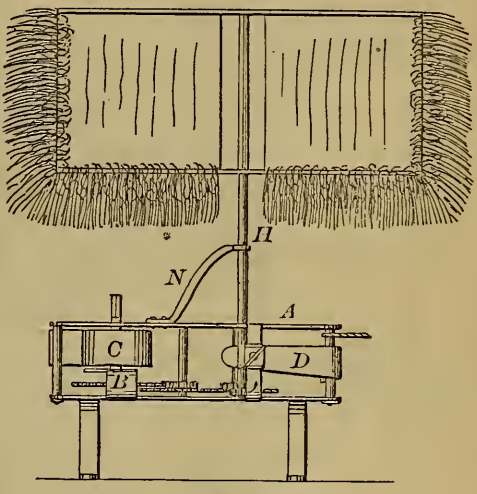


81535—F. Post—*Water Wheel.*

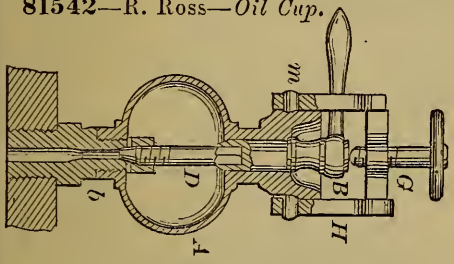


81539—J. H. Reynerson—*Rotating Fan.*

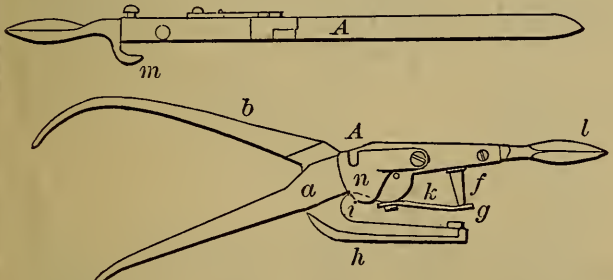




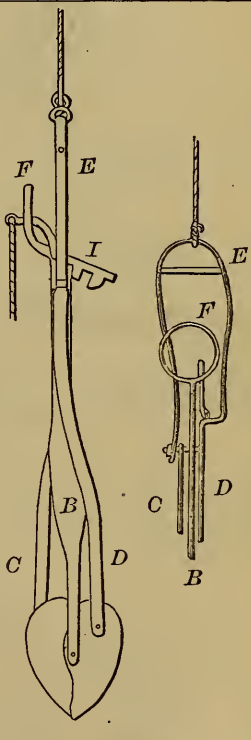
81542—R. Ross—*Oil Cup.*

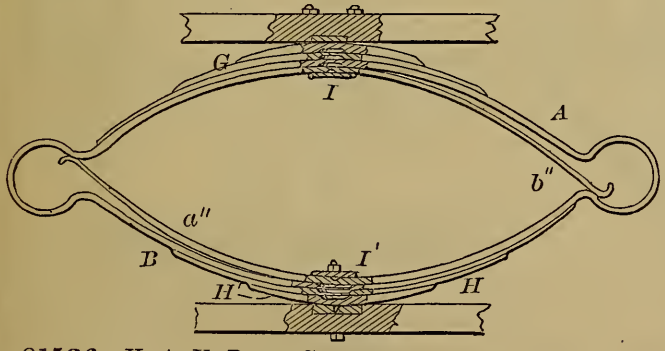


81537—Priest & Earl—*Belt Lacer.*



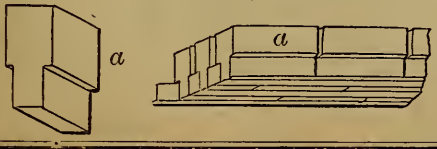
81541—G. M. Robinson—*Hay Fork.*



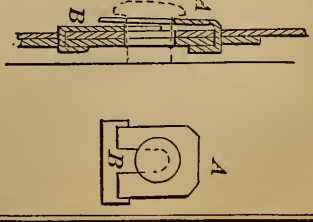


81536—H. A. V. Post—*Spring.*

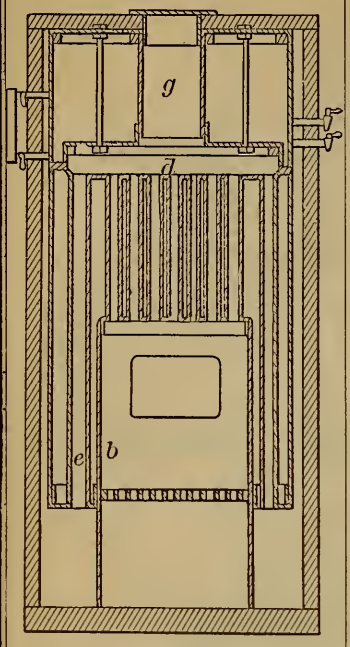
81540—W. D. Richardson—*Wooden Pavement.*



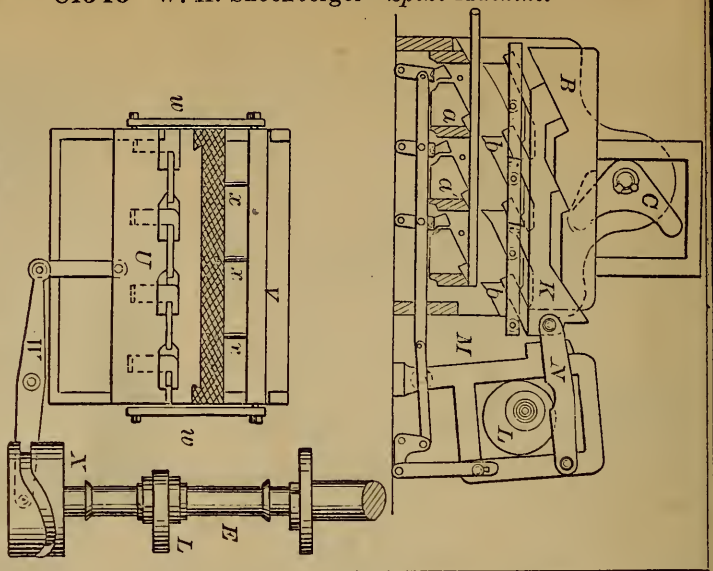
81538—W. G. Queal—*Button Hole Shield.*



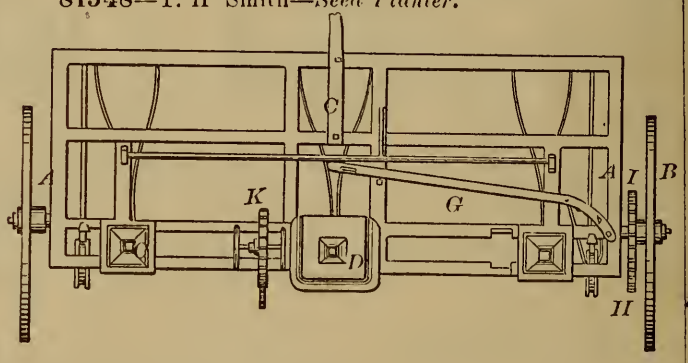
81543—J. Q. A. Sargent—*Steam Generator.*

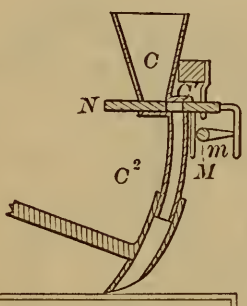


81546—W. H. Shoenberger—*Spike Machine.*

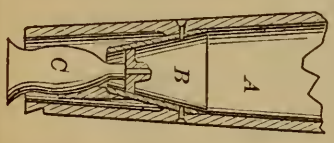


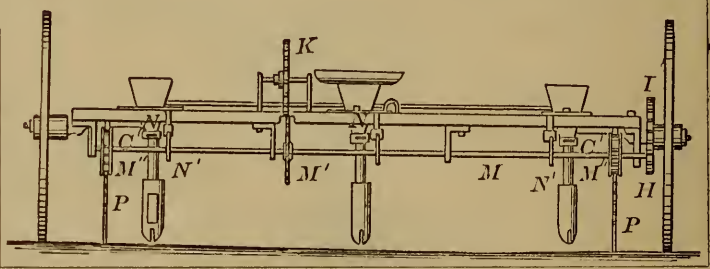
81548—T. H Smith—*Seed Planter.*



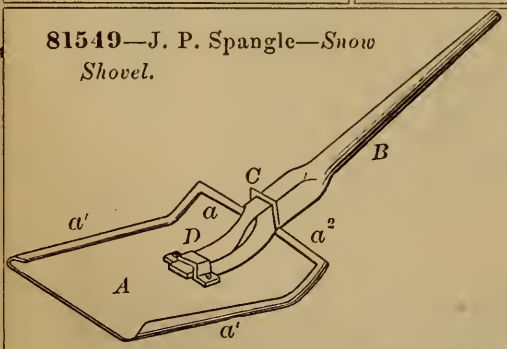


81547—J. H. Shreiner—*Grain Drill.*

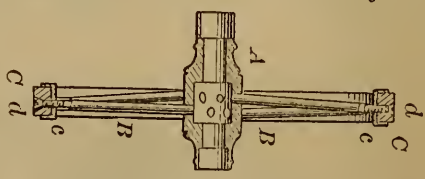




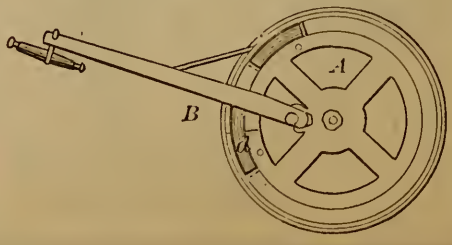
81549—J. P. Spangle—*Snow Shovel.*



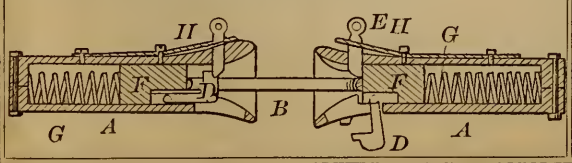
81545—J. T. Shimer—*Carriage Wheel.*



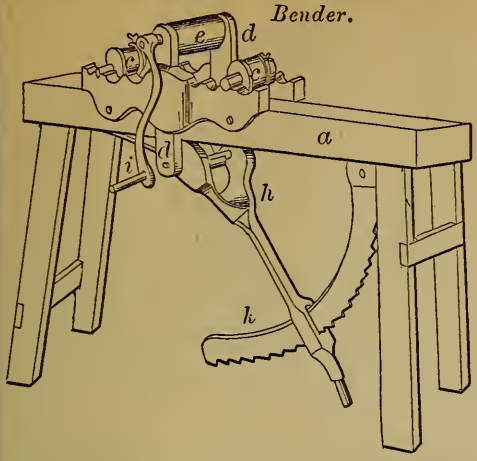
81544—H. Shaw—*Connecting Draft Lever to Horse Power Machines.*



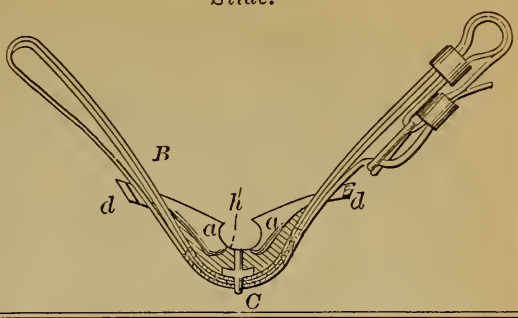
81551—H. B. Steele—*Car Coupling.*



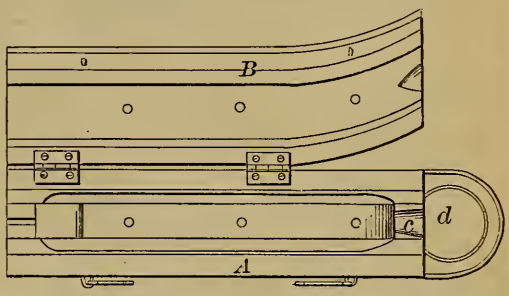
81550—T. M. & A. F. Stansbury—*Tire Bender.*



81553—Stevens & Garrison—*Breast Strap Slide.*

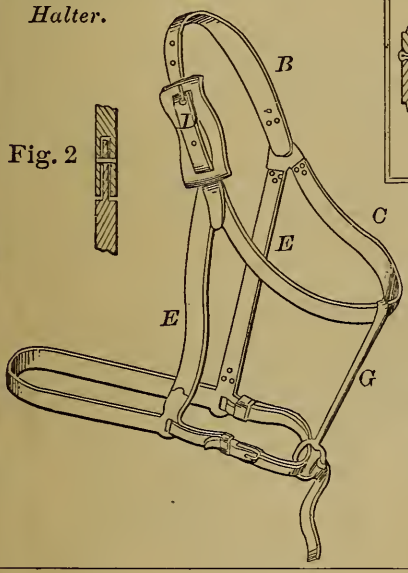


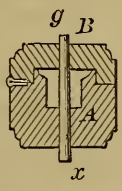
81554—C. Sthore—*Moulds.*



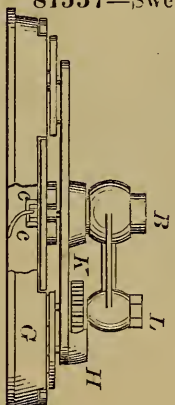
81552—C. A. Steinbruecke—*Halter.*

Fig. 2

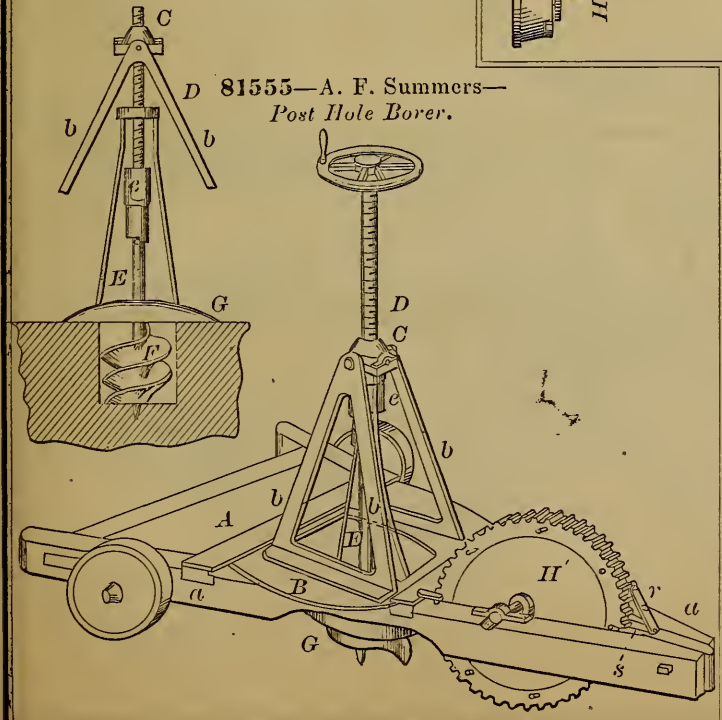




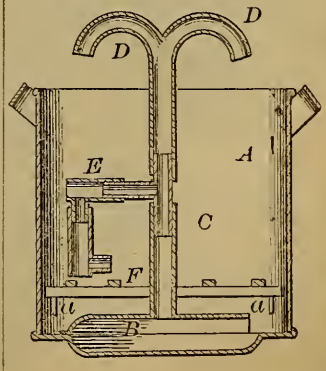
81557—Swett & Graham—*Gate for Turbine Wheels.*



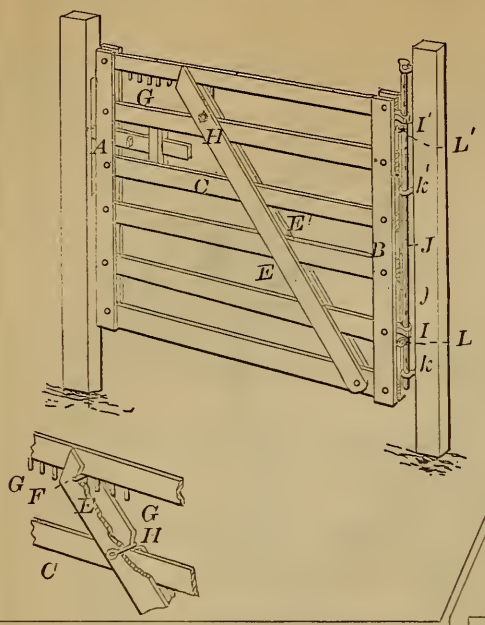
81555—A. F. Summers—*Post Hole Borer.*



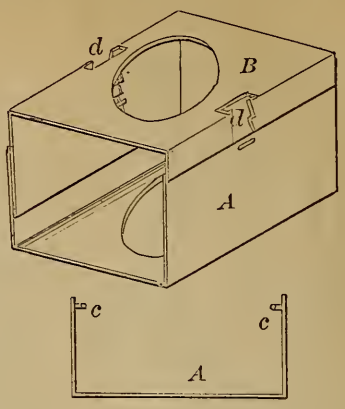
81556—Sweetland & Fenn—*Wash Boiler.*



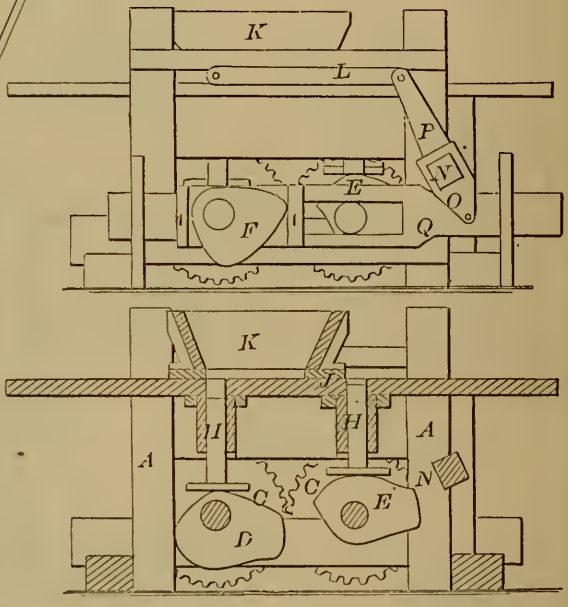
81558—L. F. Tanner—*Farm Gate.*



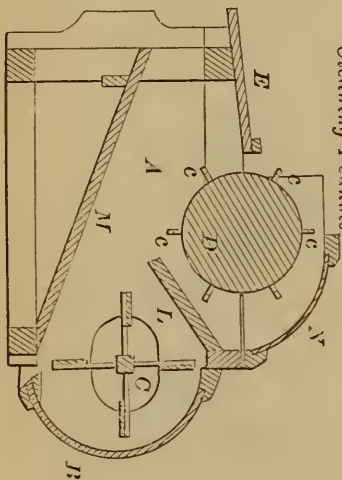
81559—A. E. Taylor—*Letter File.*



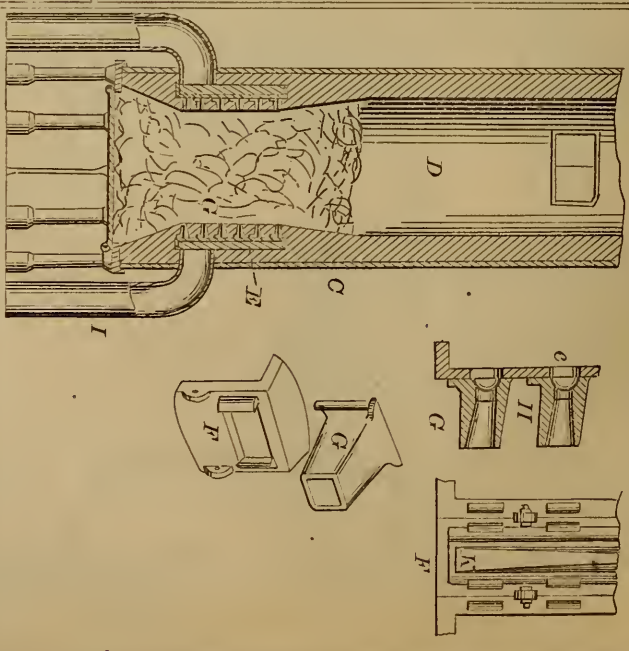
81560—A. A. Torpey—*Brick Press.*



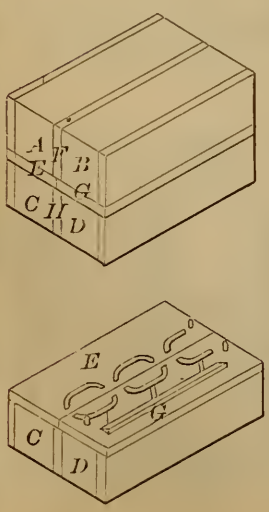
81562—J. C. Underwood—*For Picking and Cleaning Peanuts.*



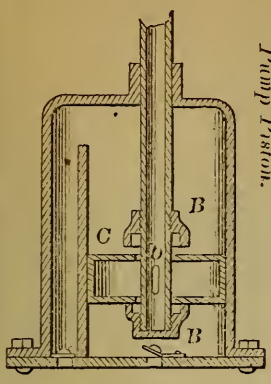
81561—C. Truesdale—*Cupola and Blast Furnace.*



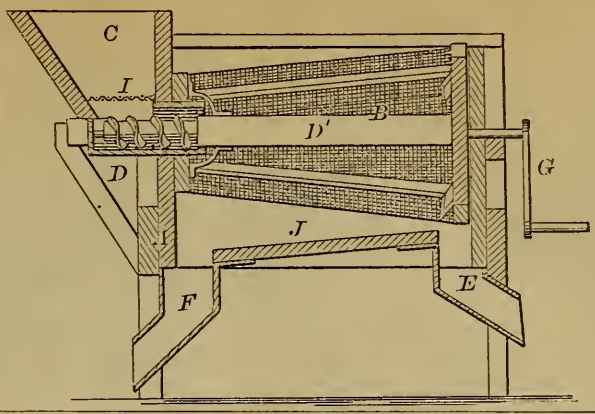
81563—C. C. E. Van Alstine—*Casting Chains.*



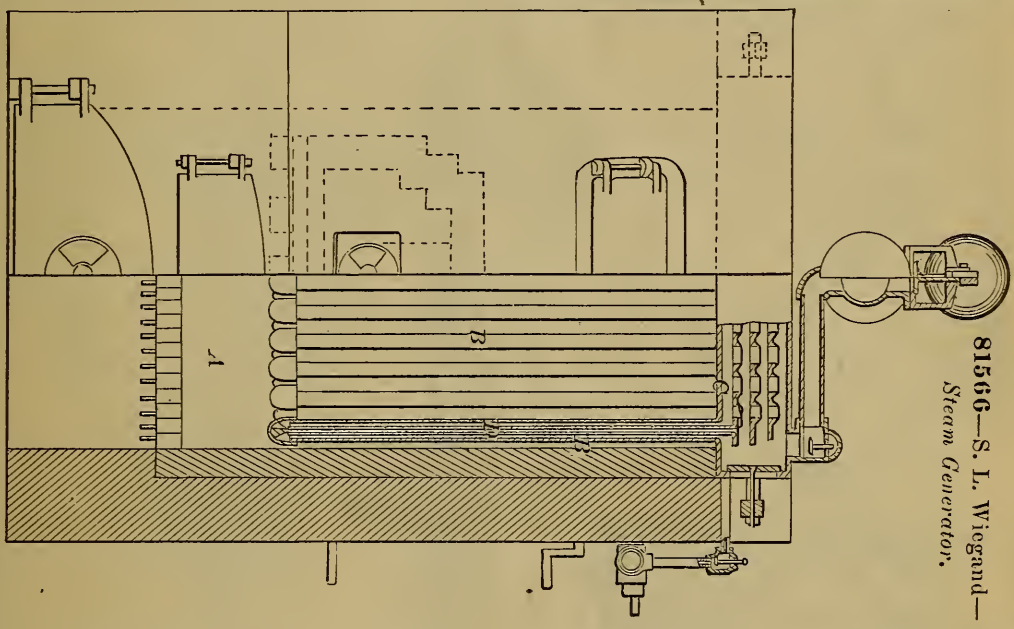
81565—J. D. Westcott—*Pump Piston.*



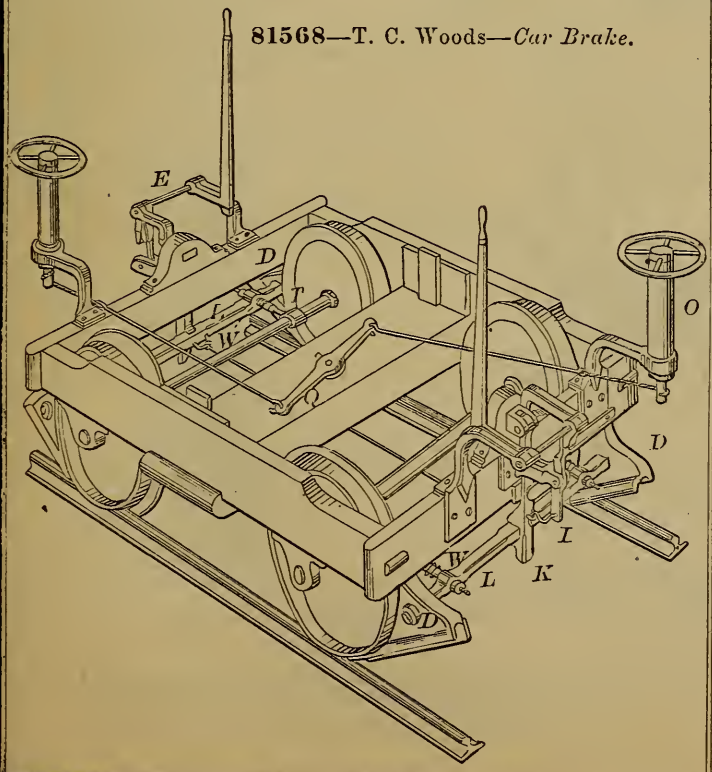
81567—J. H. H. Wiseheart—*Grain Screen.*



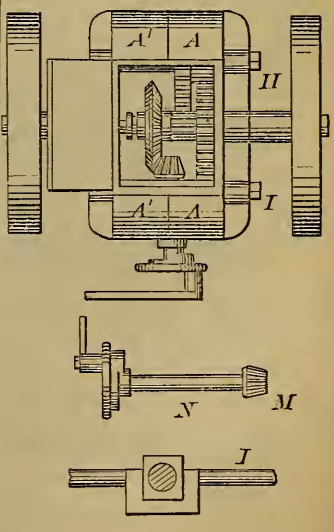
81566—S. L. Wiegand—*Steam Generator.*



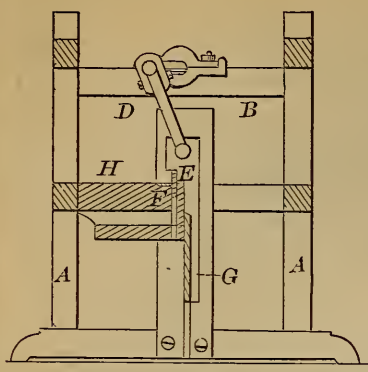
81568—T. C. Woods—*Car Brake.*



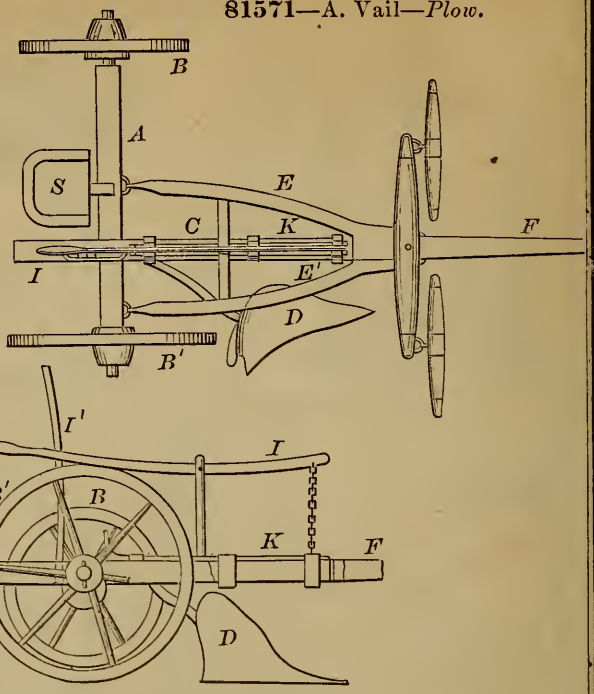
81569—G. W. N. Yost—*Harvester.*



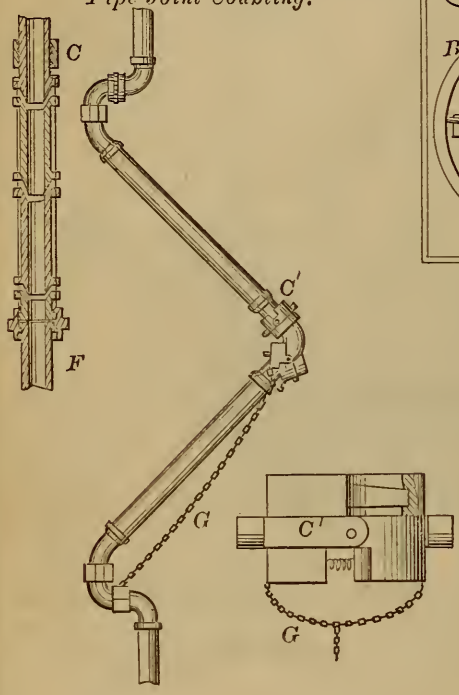
81570—C. B. King—*Potato Slicer.*



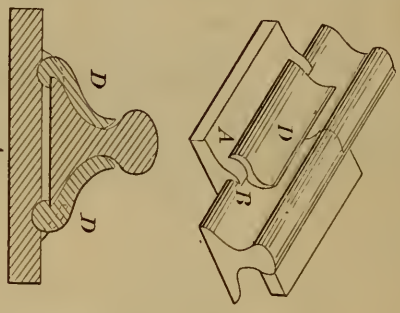
81571—A. Vail—*Plow.*



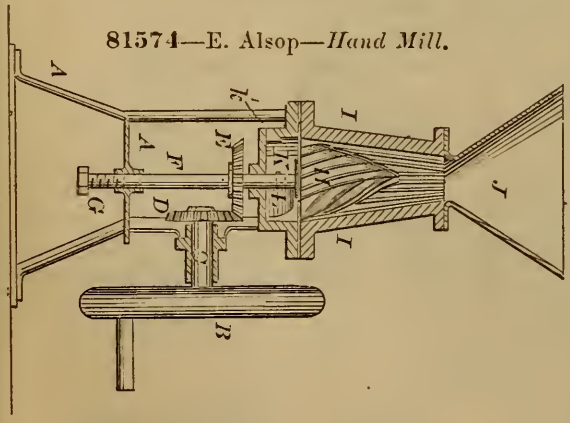
81572—S. Ainsworth—*Flexible Pipe Joint Coupling.*



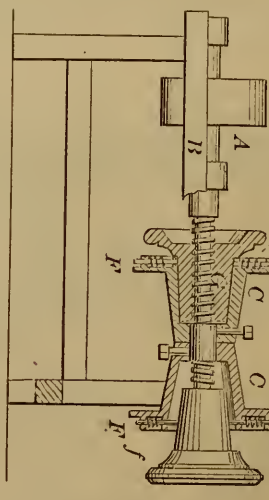
81573—S. T. Alexander—*Railway Chair.*



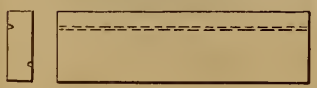
81574—E. Alsop—*Hand Mill.*



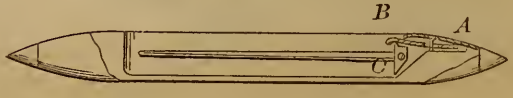
81575—Arnold & Clark—*For Making Barrels.*



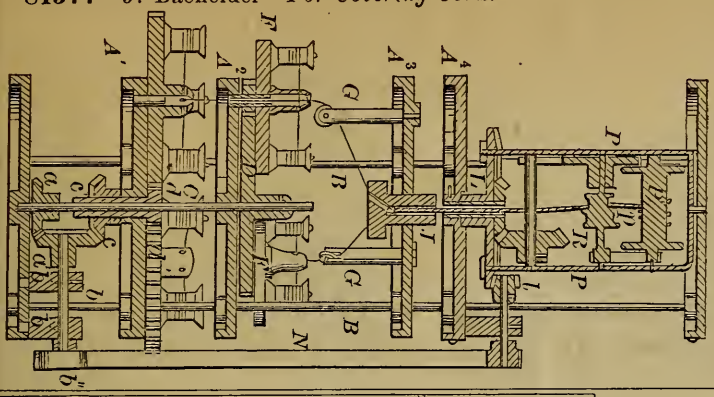
81579—J. W. Bailey—*Marking Weather Boarding.*



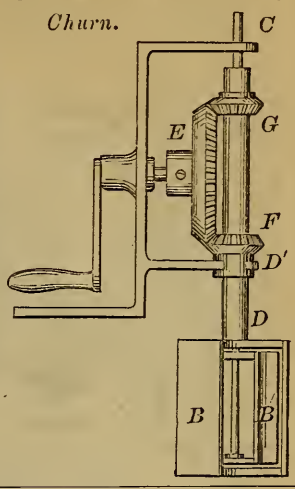
81578—E. Baggett—*Loom Shuttle.*



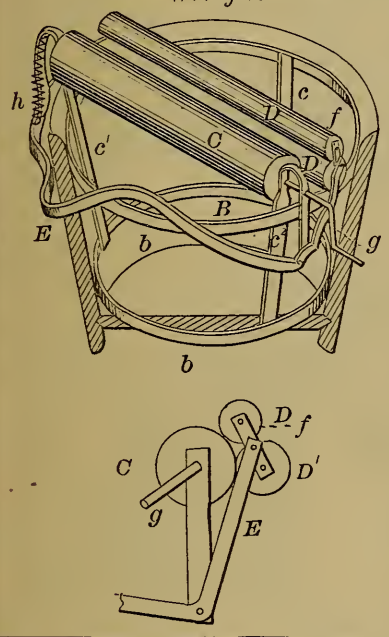
81577—J. Bachelder—*For Covering Cord.*



81589—V. M. R. Branch—*Churn.*

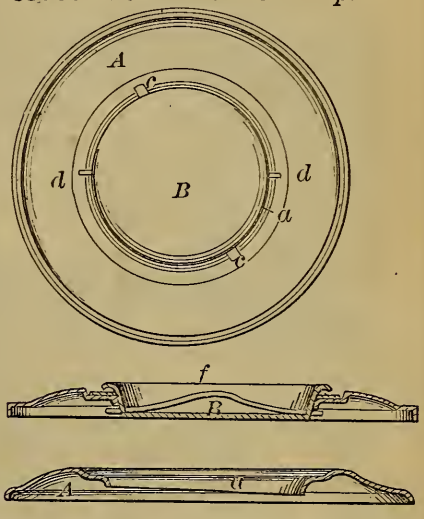


81583—M. J. Barcalo—*Mop Wringer.*

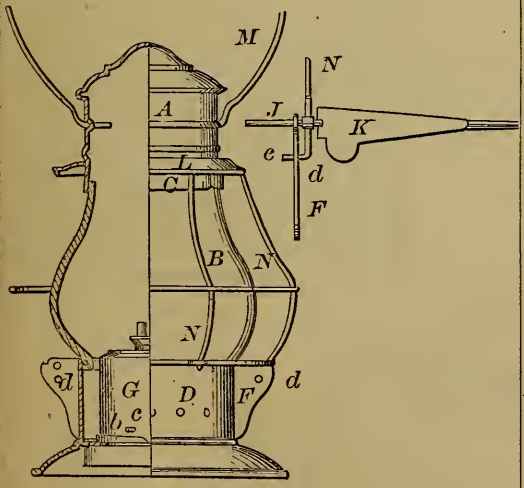


81582—D. Baker—*Well Tube.*

81585—L. F. Betts—*Can Top.*

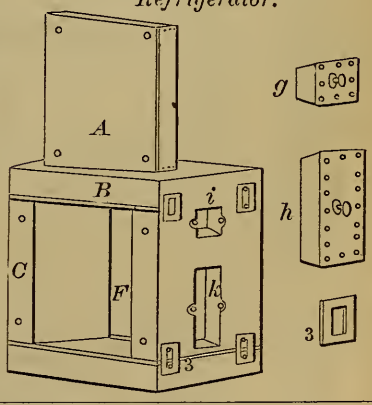


81584—L. F. Betts—*Lantern.*

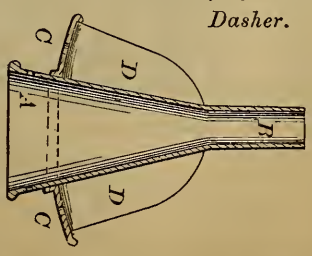


81580—D. Baker—*Well Tube.*

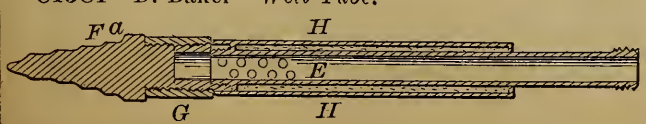
81588—E. D. Brainard—*Refrigerator.*



81586—A. T. Bleyley—*Churn Dasher.*



81581—D. Baker—*Well Tube.*



81590—A. Brin—*For Carburetting Air.*

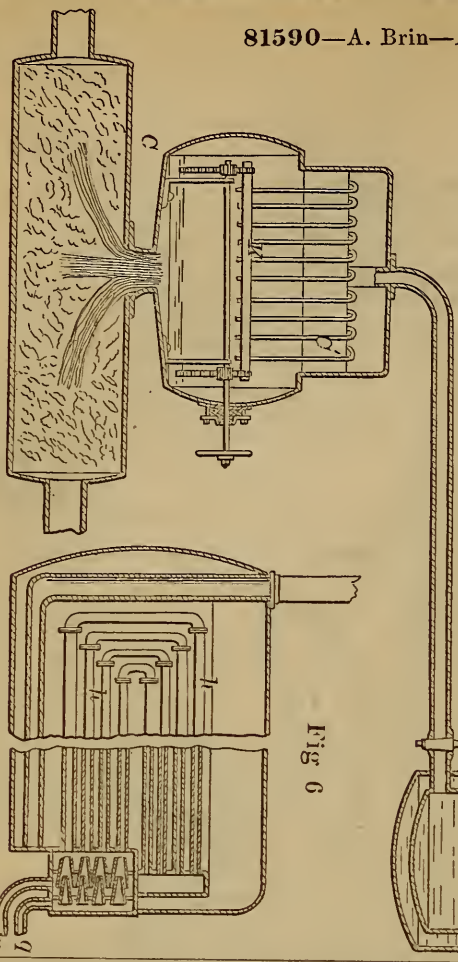


Fig. 6

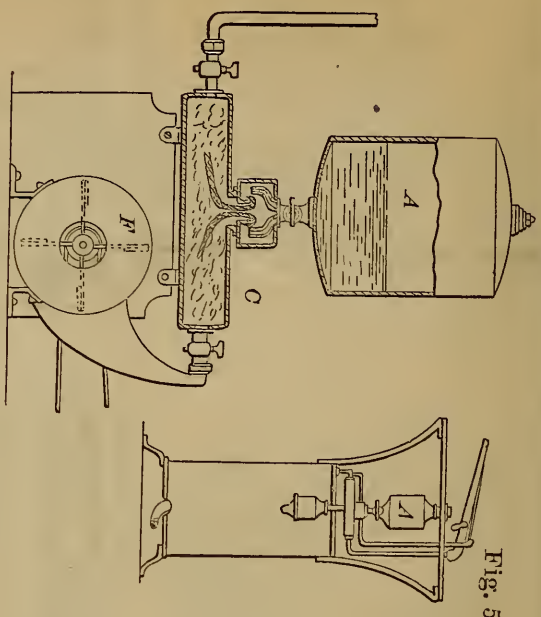
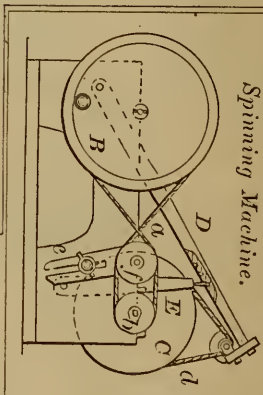
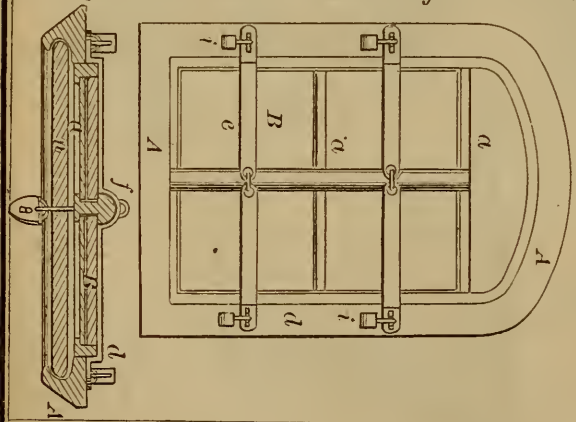


Fig. 5

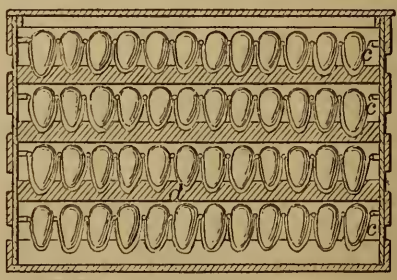
81594—J. W. Burkhart—*Spinning Machine.*



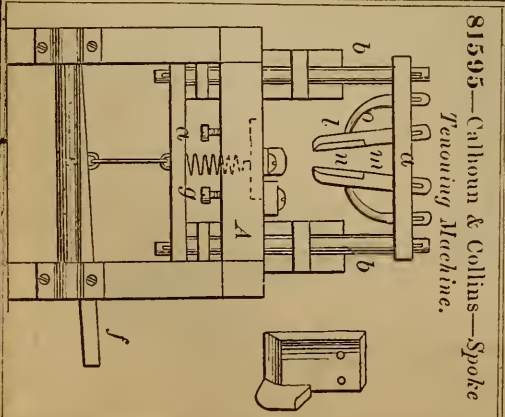
81592—W. P. Brown—*Advertising Show Frame.*



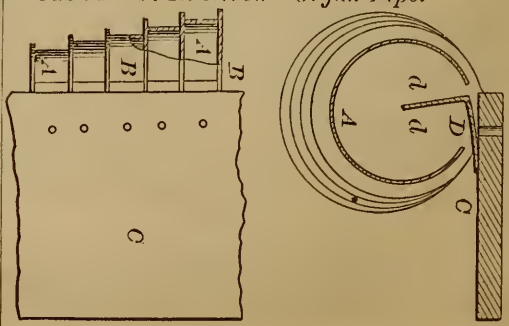
81593—A. H. Bryant—*Egg Carriers.*



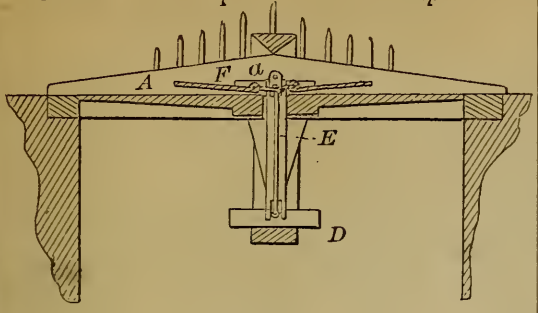
81595—Calhoun & Collins—*Spoke Tenoning Machine.*



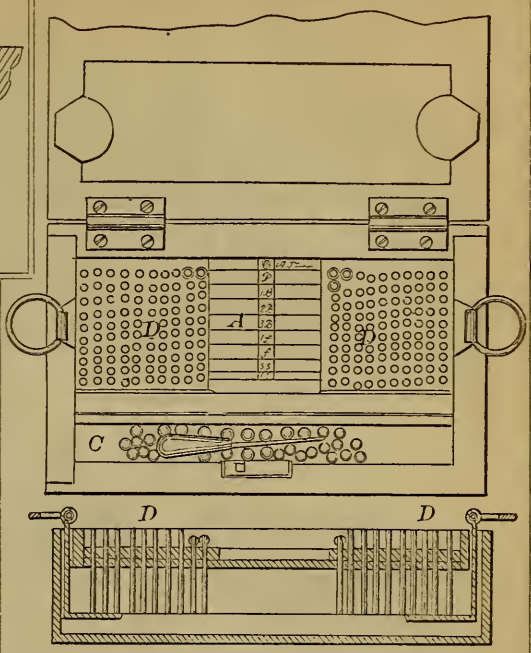
81591—G. H. Brock—*Organ Pipe.*



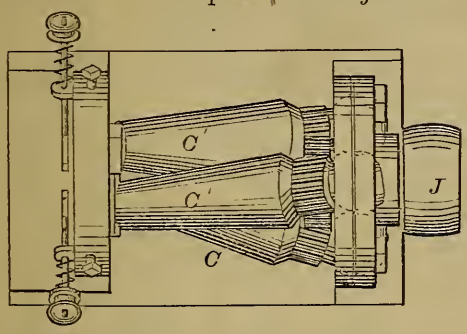
81596—A. Campbell—*Animal Trap*



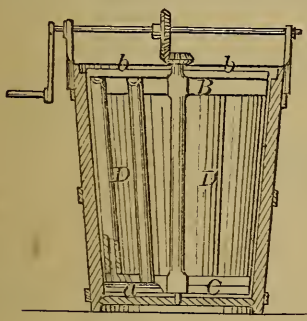
81598—T. L. Canary—*Base Ball Tally Board.*



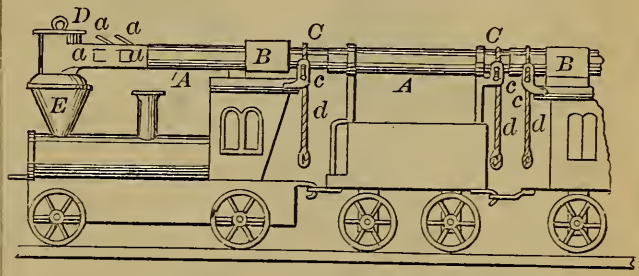
81600—J. L. Chapman—*Rolling Mill.*



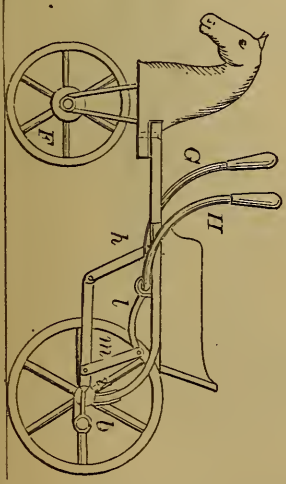
81599—N. P. Chaney—*Churn.*



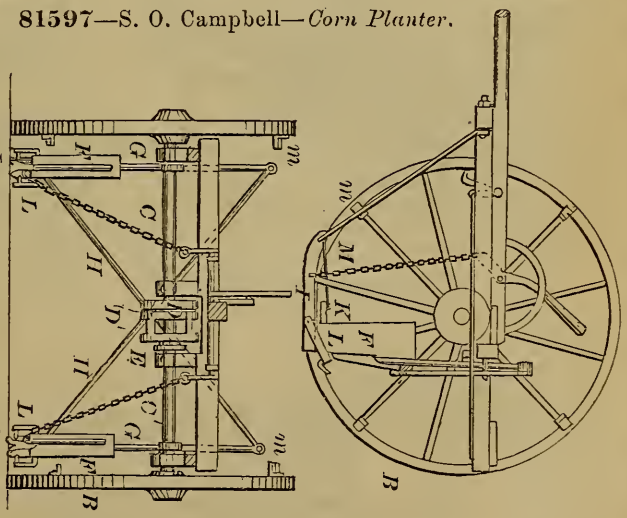
81602—I. Choate—*Locomotive Spark Arrester.*



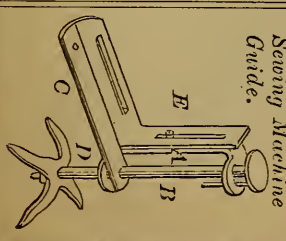
81603—A. Christian—*Velocipede.*



81597—S. O. Campbell—*Corn Planter.*

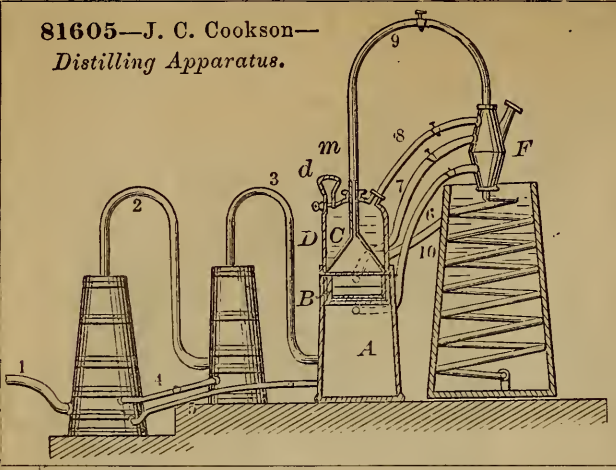


81604—J. Cline—*Sewing Machine Guide.*

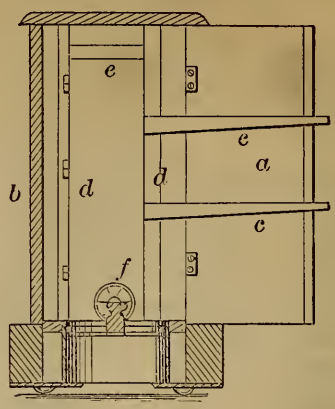


81601—E. Chesterman—*Interfering Strap for Horses.*

81605—J. C. Cookson—*Distilling Apparatus.*

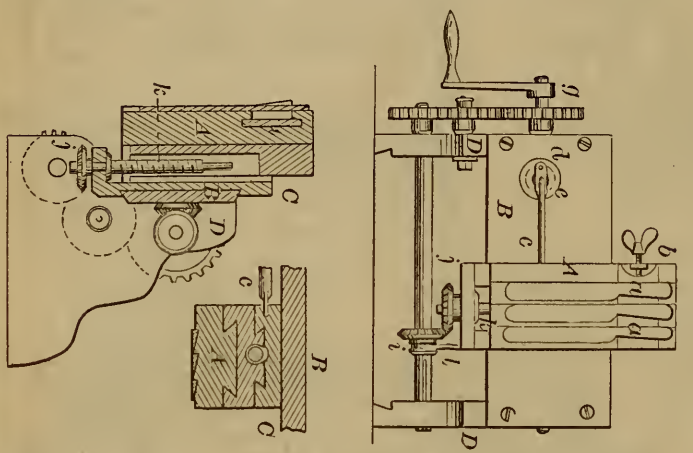


81606—C. Crane—*Dryer.*

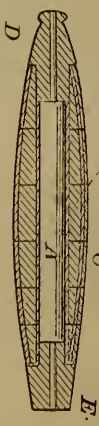


81607—P. Cunningham—*Slotting Auger.*

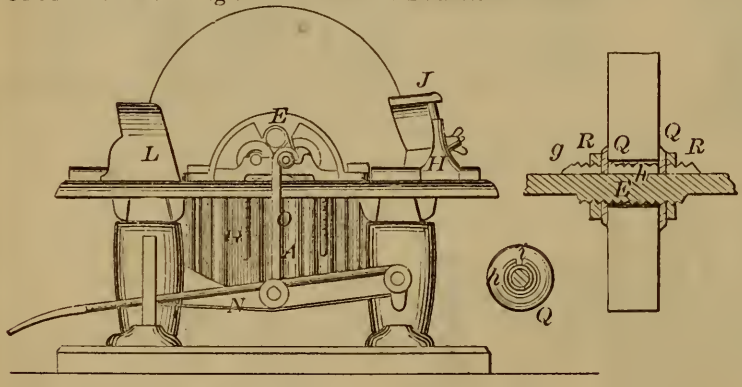
81608—J. P. Curtiss—*For Grinding Metal Articles.*



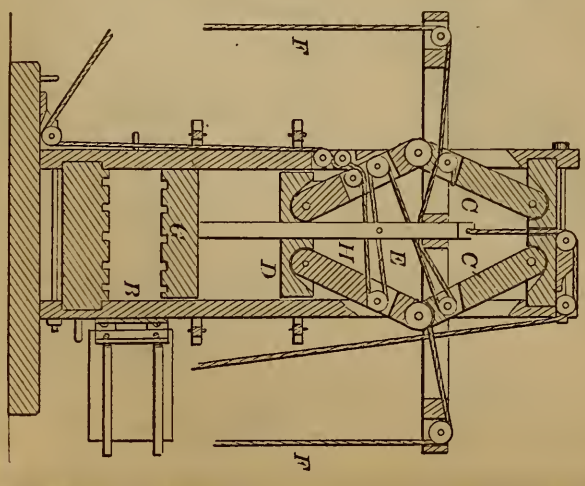
81610—H. E. Doster—*Cigar Pipe.*



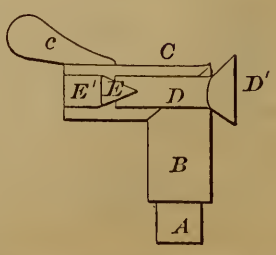
81611—J. W. Douglas—*Grindstone Frame.*



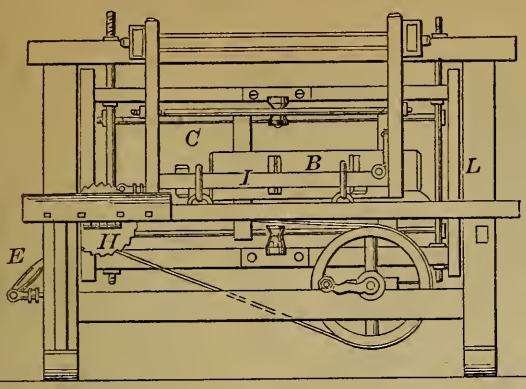
81612—D. Dunn—*Baling Press.*

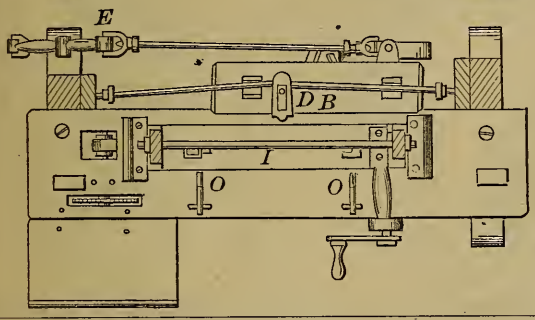


81609—H. S. Decker—*Chimney Cowl.*

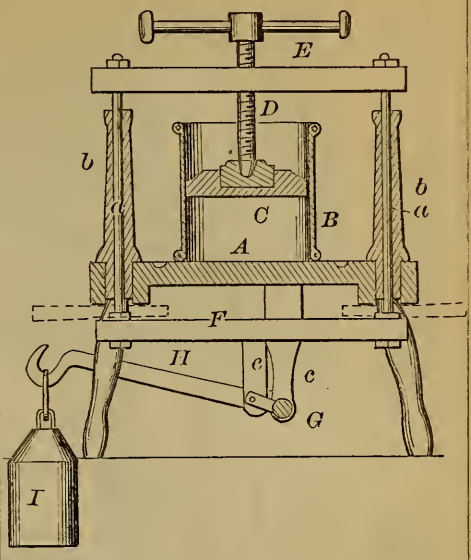


81613—L. B. Ecker—*For Jointing Staves.*

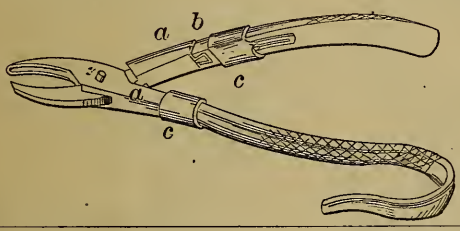




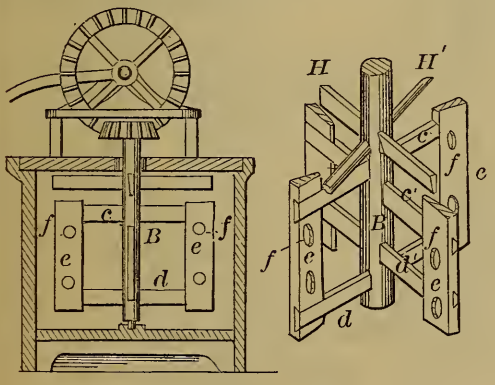
81614—J. Erdle—*Cheese Press.*



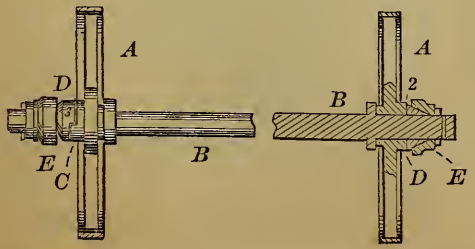
81616—H. T. Fogg—*Handle for Surgical Instruments.*



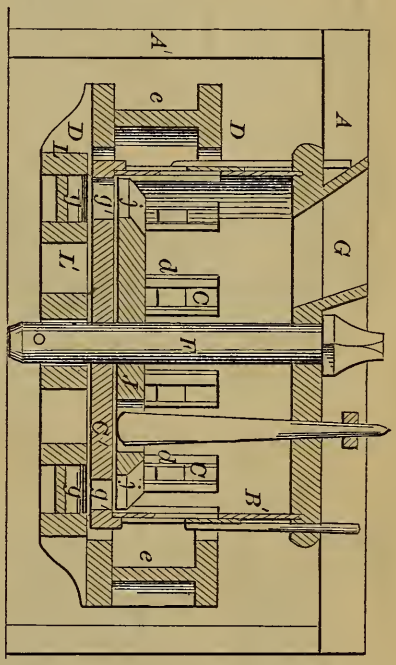
81615—J. Fassauer—*Churn.*

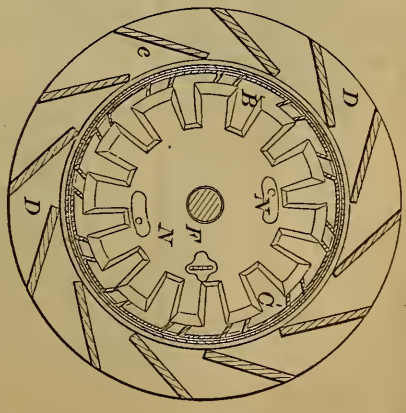


81617—E. T. Ford—*Friction Clutch.*

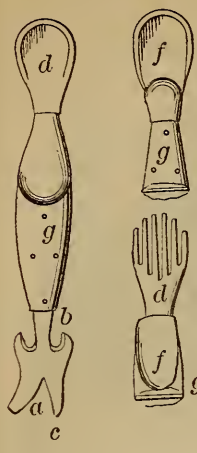


81618—T. H. Fox—*Water Wheel.*

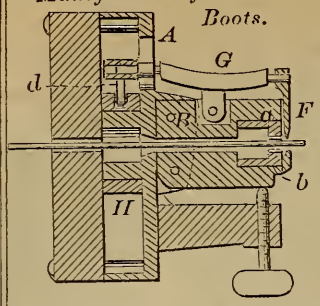




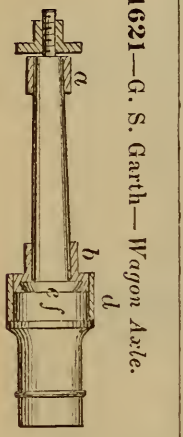
81619—F. Fuller—*Garden Implement.*



81620—J. Galli—*Manufacture of Screwed Boots.*



81621—G. S. Garth—*Wagon Axle.*



81622—S. H. Gilman—*Cotton Picker and Cleaner.*

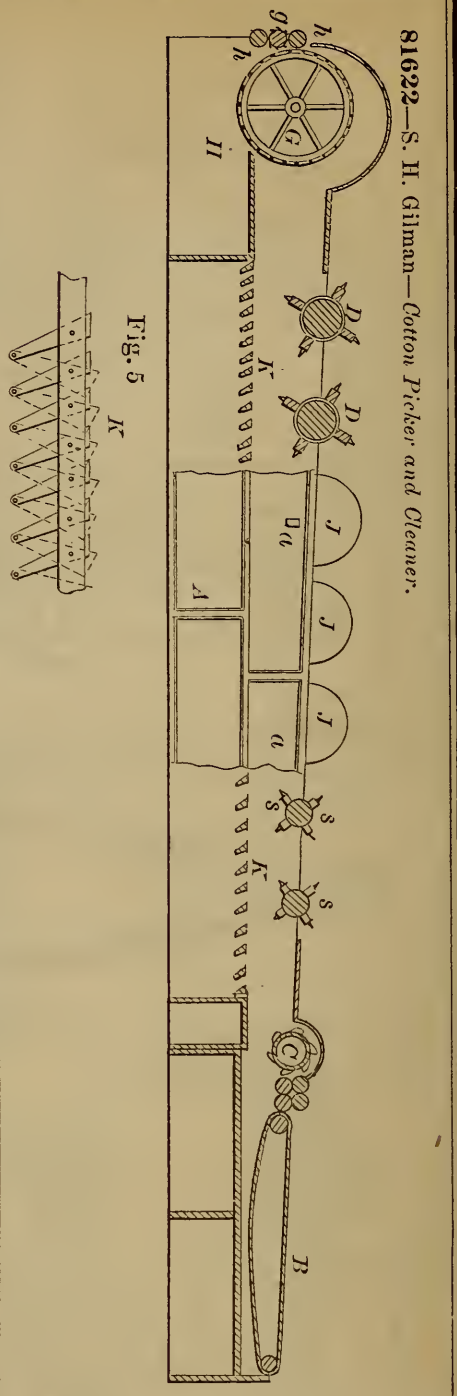
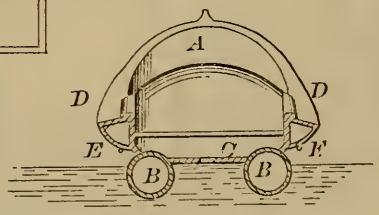
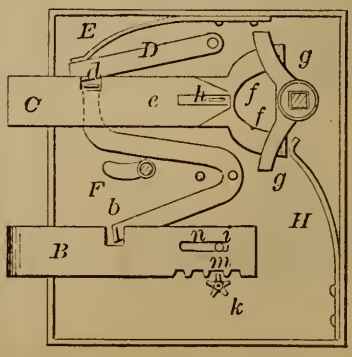


Fig. 5

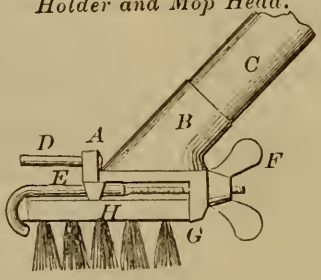
81623—J. R. Grace—*Life Boat.*



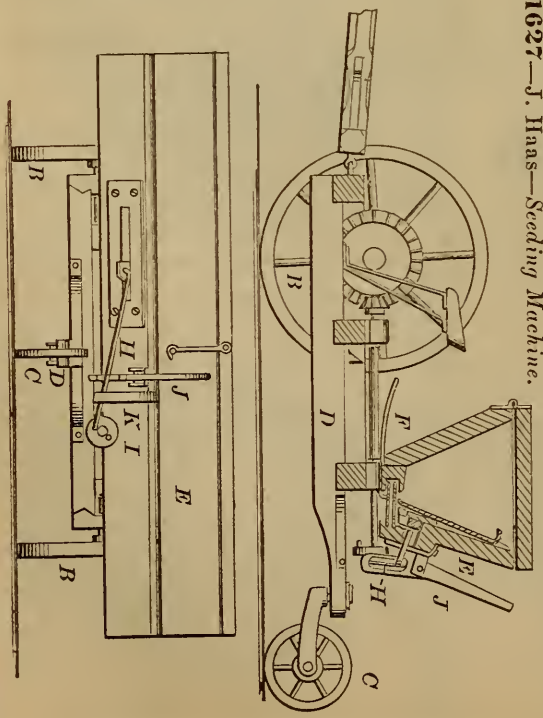
81625—S. A. Green—*Latch and Lock.*



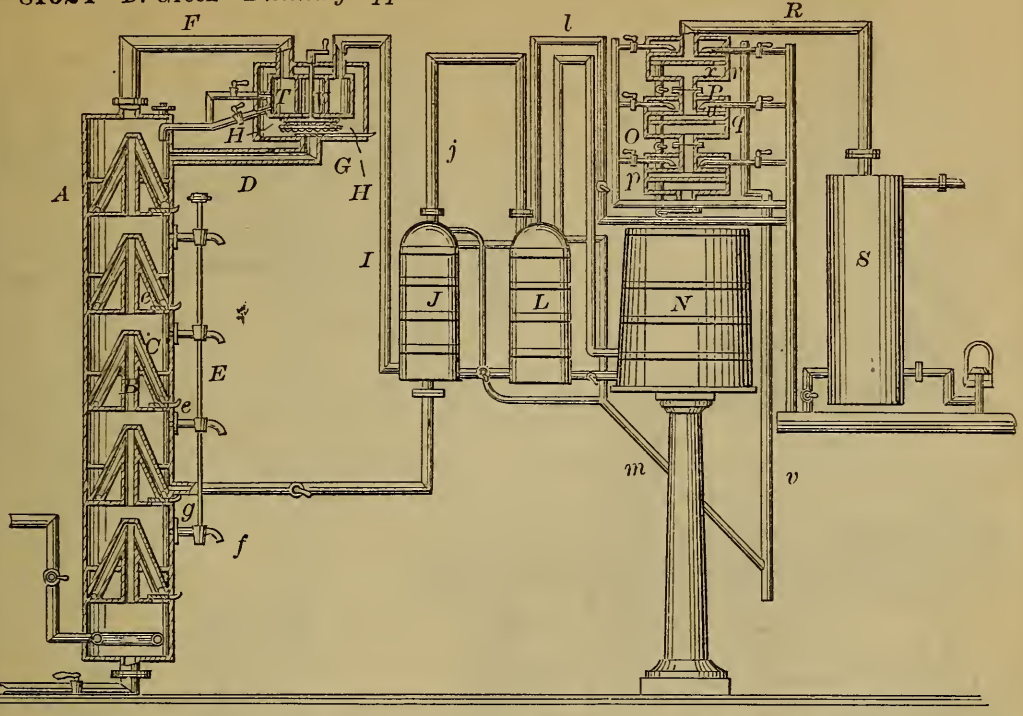
81626—H. P. Gregg—*Brush Holder and Mop Head.*



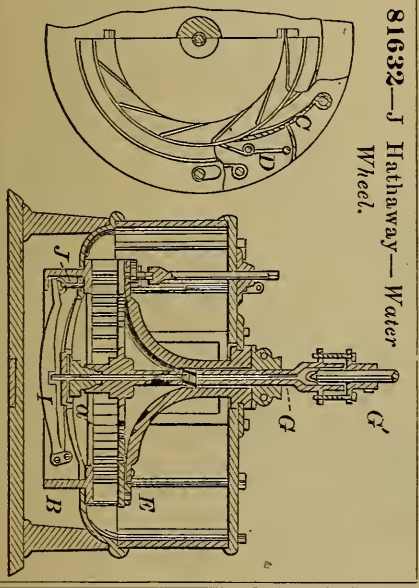
81627—J. Haas—*Seeding Machine.*



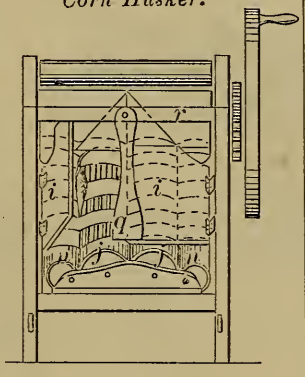
81624—D. Green—*Distilling Apparatus.*



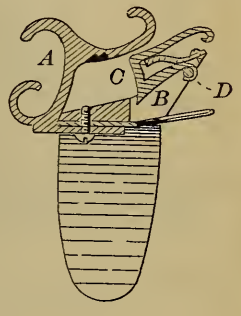
81632—J. Hathaway—*Water Wheel.*

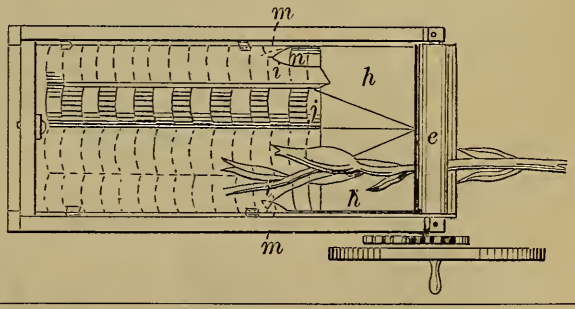


81631—J. M. Hartnett—*Corn Husker.*

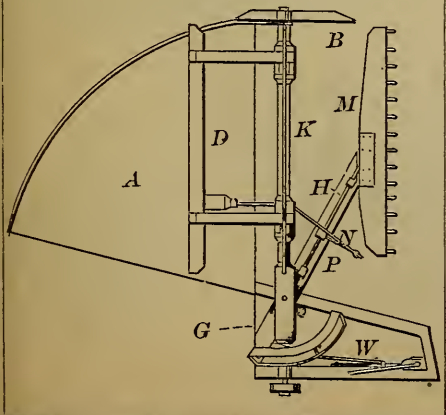


81629—J. S. Hall—*Harness Saddle Tree.*

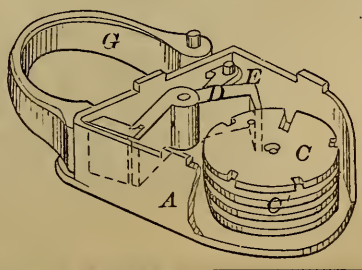




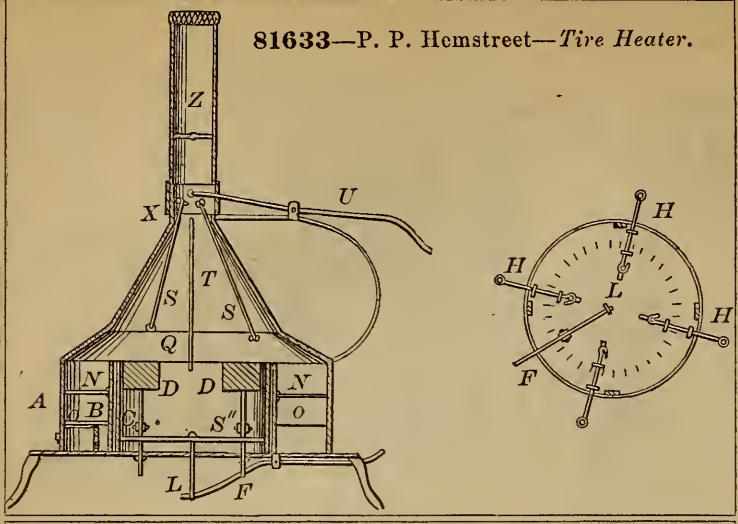
81628—J. C. Hall—*Harvester Rake.*



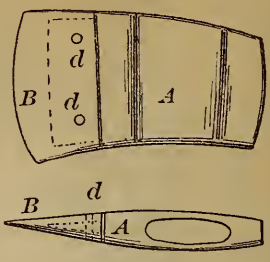
81630—J. L. Hall—*Combination Padlock.*



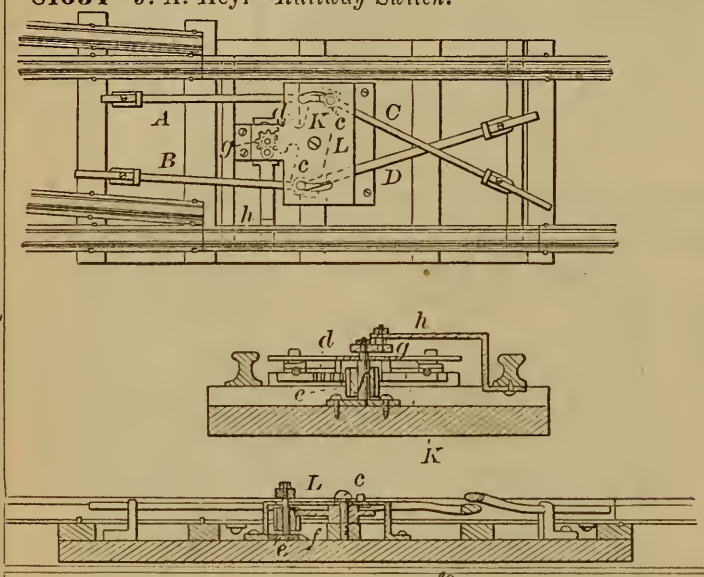
81633—P. P. Hemstreet—*Tire Heater.*



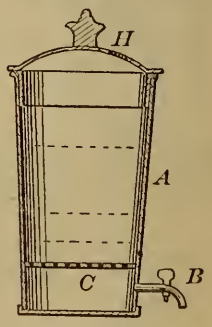
81635—Hilton & Green—*Axe.*



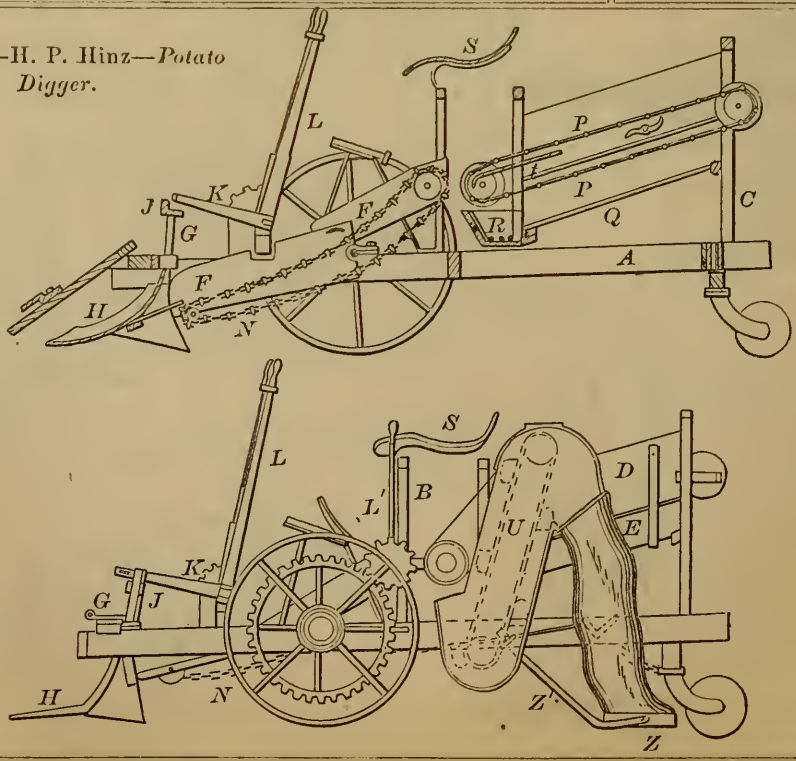
81634—J. A. Heyl—*Railway Switch.*



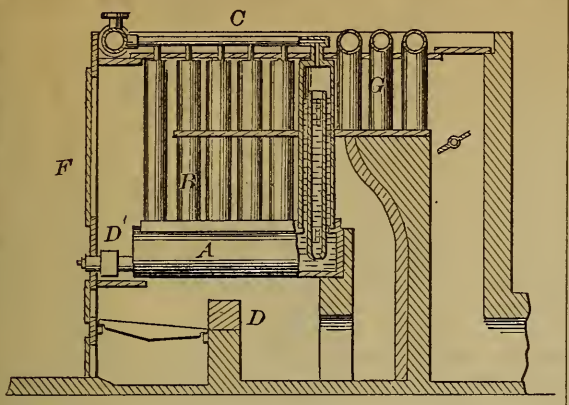
81637—S. R. Holt—*Making Vinegar.*



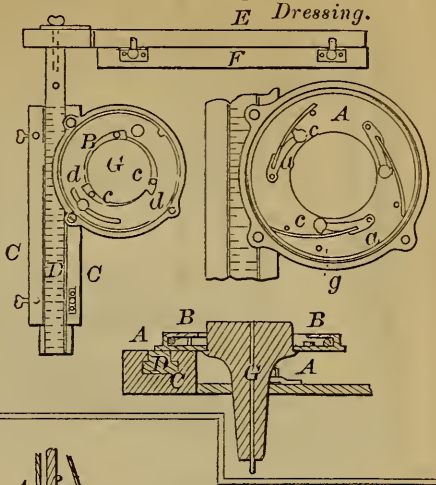
81636—H. P. Hinz—*Potato Digger.*



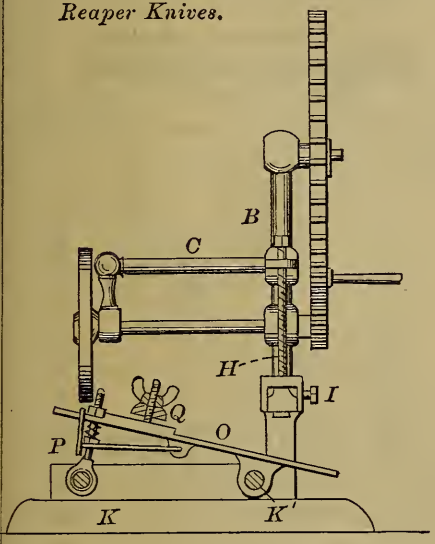
81638—Howard & Bousfield—*Steam Generator.*

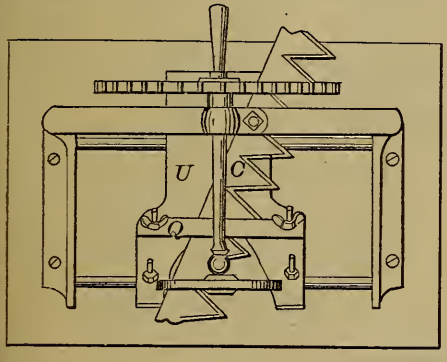


81639—Hunt & Temple—*For Millstone Dressing.*

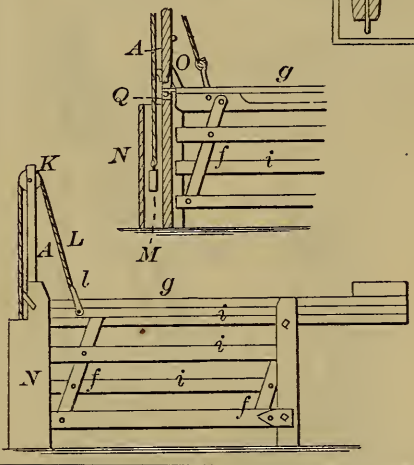


81646—F. Judson—*For Grinding Reaper Knives.*

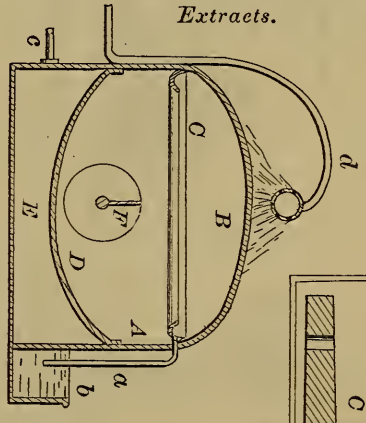




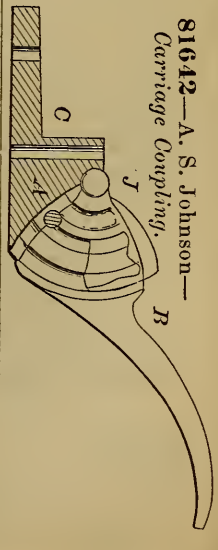
81640—J. S. Jewett—*Fence Gate.*



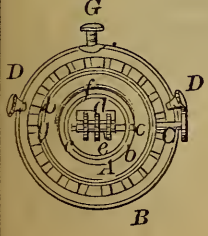
81643—T. W. Johnson—*For Concentrating Extracts.*

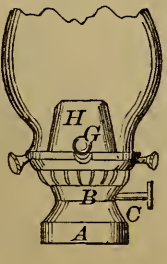


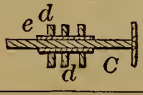
81642—A. S. Johnson—*Carriage Coupling.*

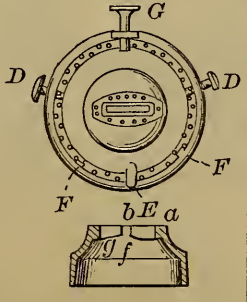


81645—A. Judson—*Lamp.*

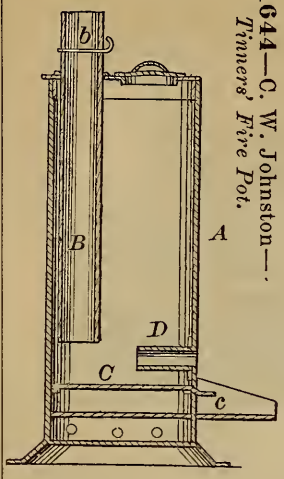




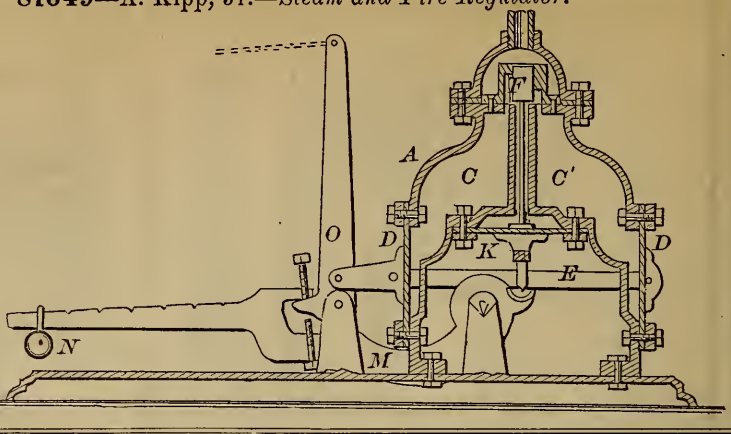




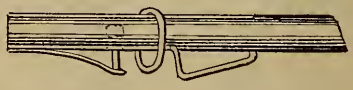
81644—C. W. Johnston—*Tinners' Fire Pot.*



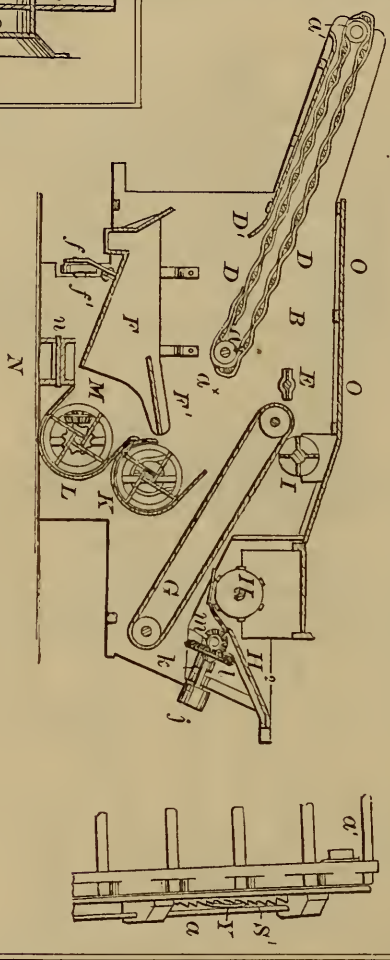
81649—A. Kipp, Jr.—*Steam and Fire Regulator.*

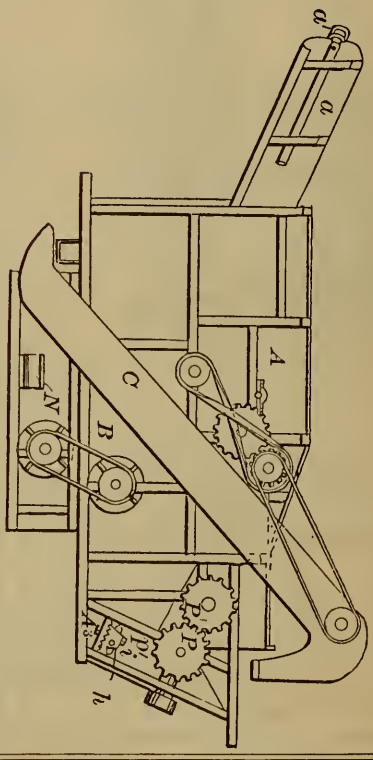


81651—L. Kruse—*Holdback.*

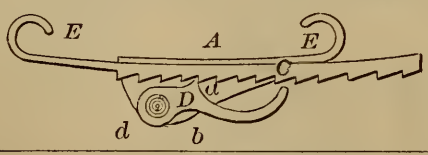


81647—D. Kane—*Threshing Machine.*

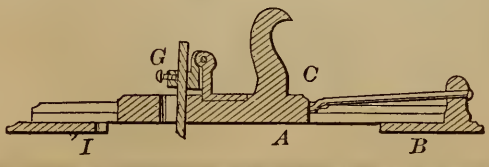




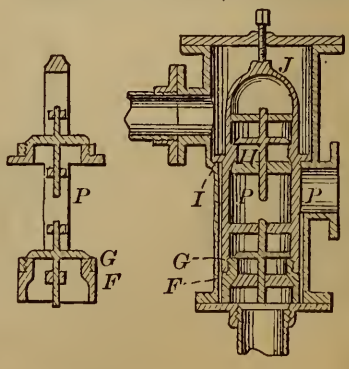
81650—Koch & Seachrist—*Hames Fastener.*



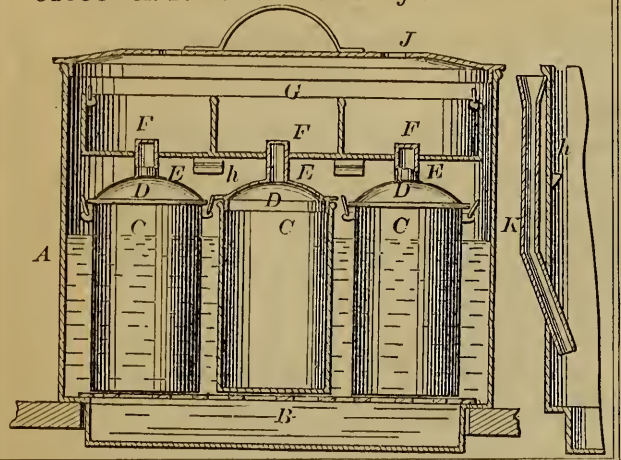
81652—J. Langham—*For Slitting Boards.*



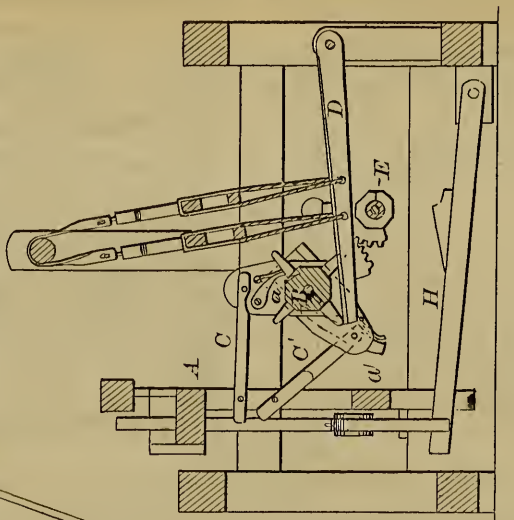
81648—W. H. Keep—*Pump.*



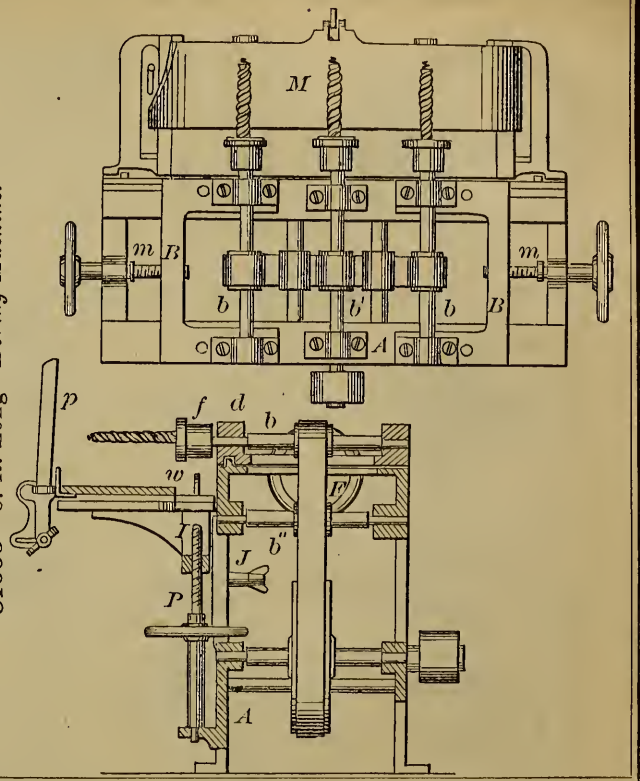
81658—A. F. Marston—*Culinary Vessel.*



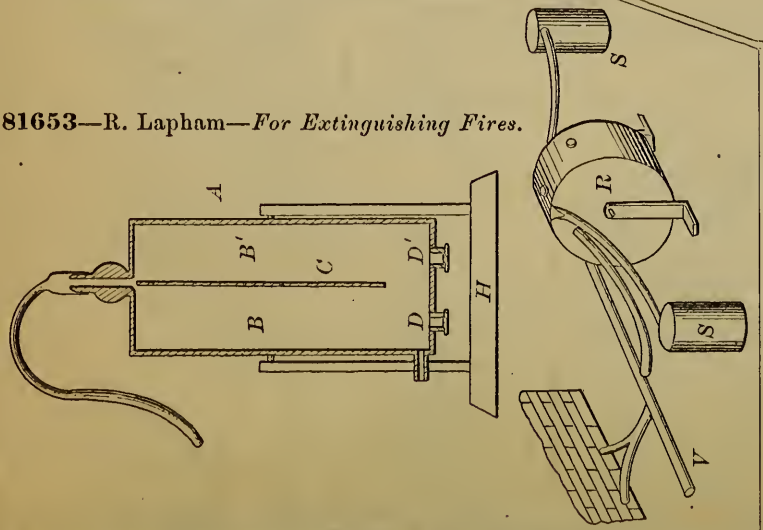
81656—E. Lowe—*Hand Loom.*



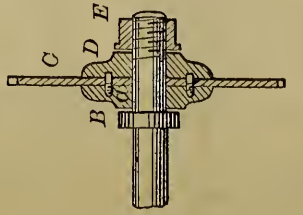
81655—C. R. Long—*Boring Machine.*



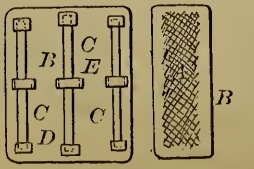
81653—R. Lapham—*For Extinguishing Fires.*



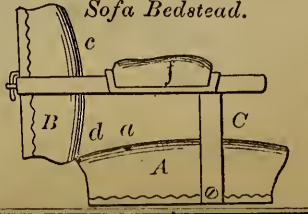
81661—W. McDonald—*Hanging Circular Saws.*



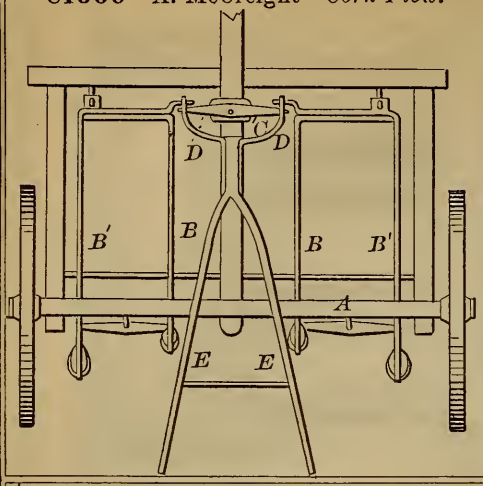
81657—J. Lynch—*Adhesive Plaster.*



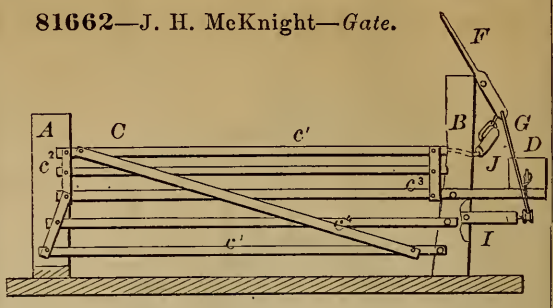
81659—M. K. Maximilian—*Sofa Bedstead.*



81660—A. McCreight—*Corn Plow.*

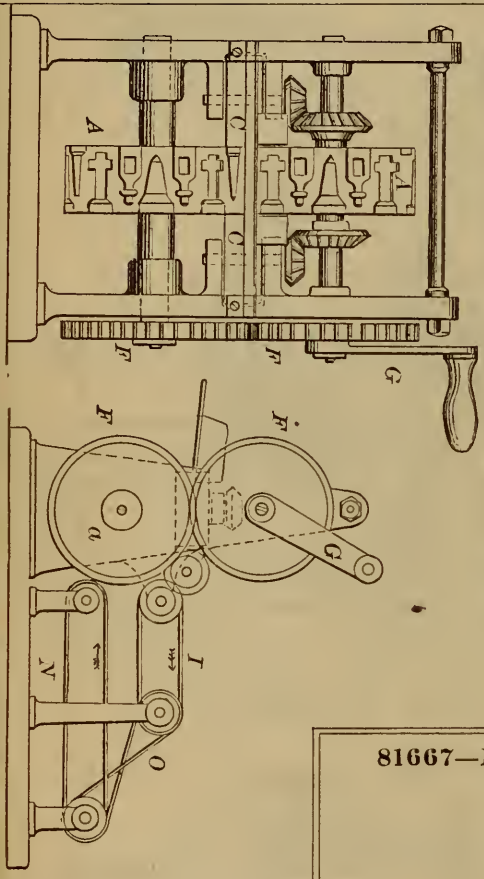


81662—J. H. McKnight—*Gate.*

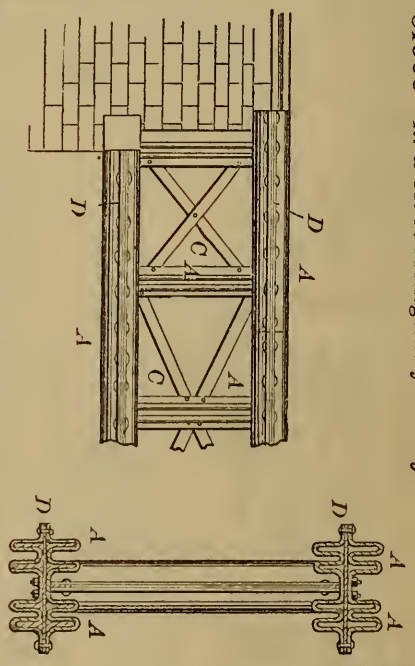


81664—J. C. Millerd—*Expanding Mandrel.*

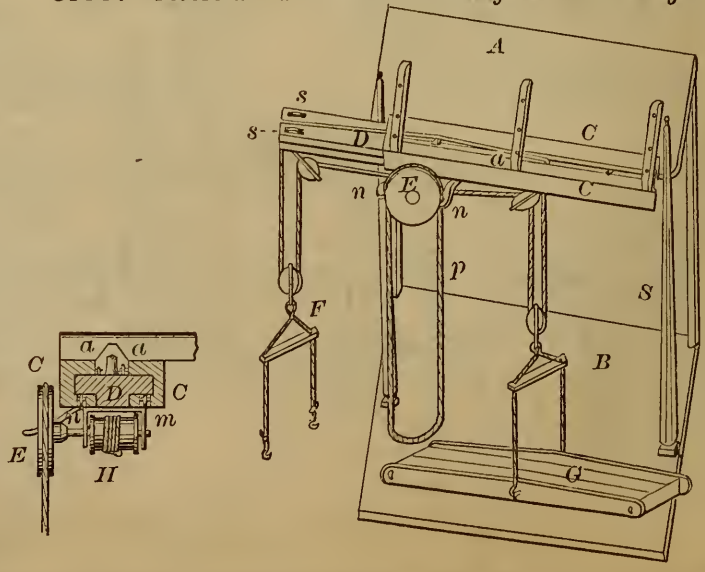
81665—T. & G. M. Mills—*For Making Candy Toys.*



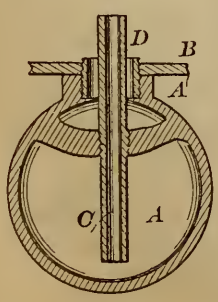
81666—R. & M. J. Montgomery—*Bridge.*



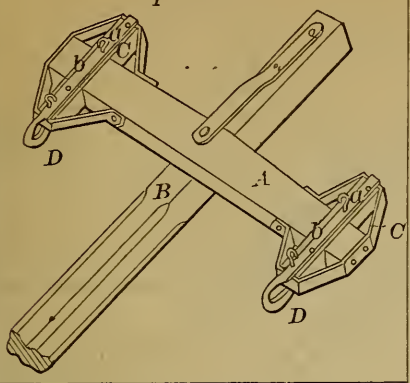
81667—Moore & Hastie—*For Handling Steamboat Stages.*



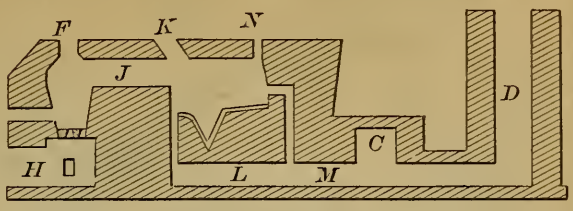
81668—W. Moses—*Steam Generator.*



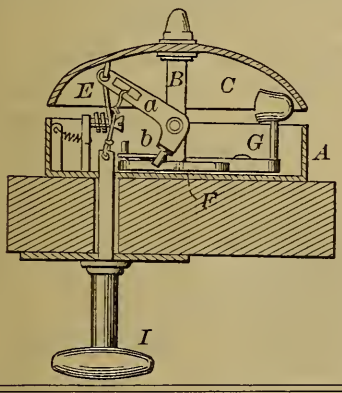
81669—G. A. Mosher—*Draft Equalizer.*



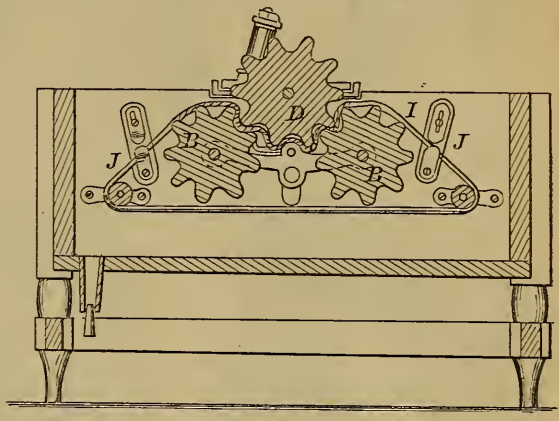
81671—E. W. Nohl—*Furnace for Smelting Ores.*



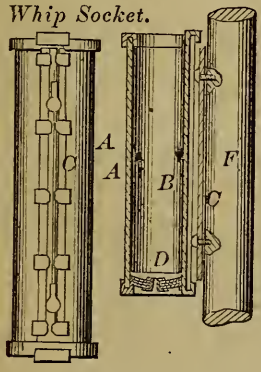
81672—O. B. Oakley—*Door Bell.*



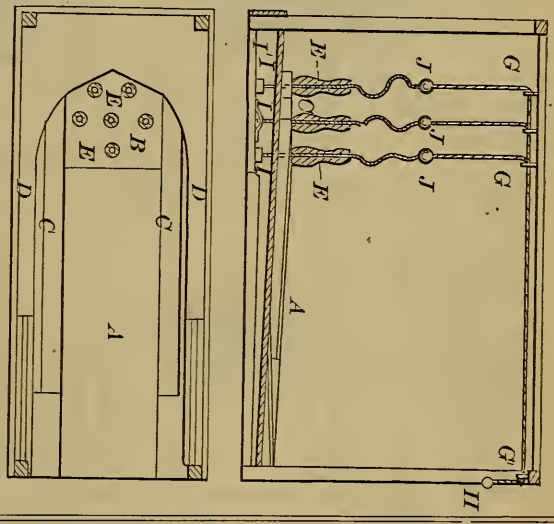
81674—J. Osterhout—*Washing Machine.*



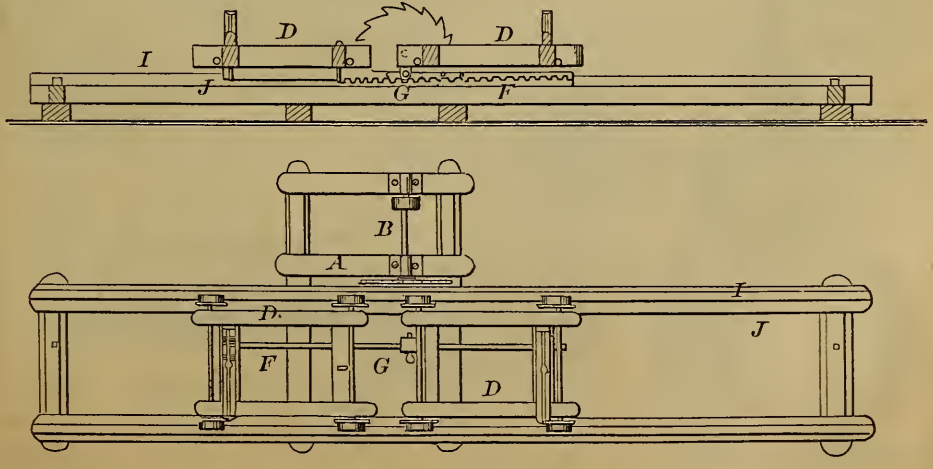
81675—L. J. Parsons—*Whip Socket.*



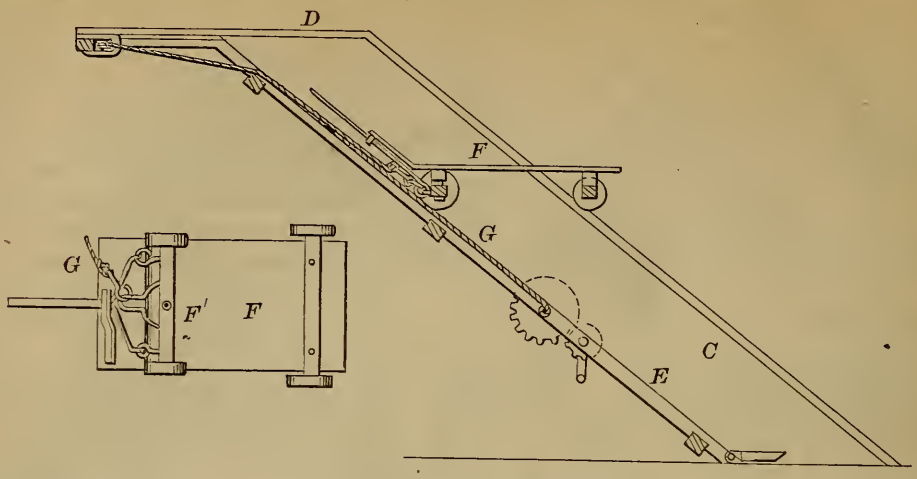
81676—J. D. Patrick—*Ball Alley.*



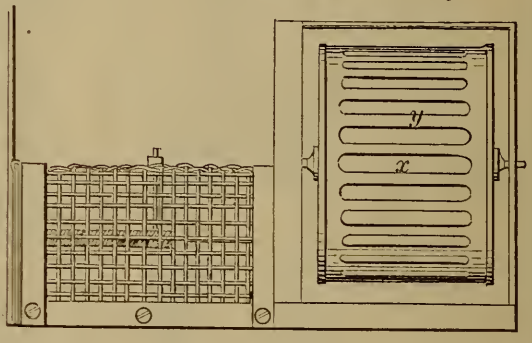
81673—J. Orm—*Circular Saw Mill.*



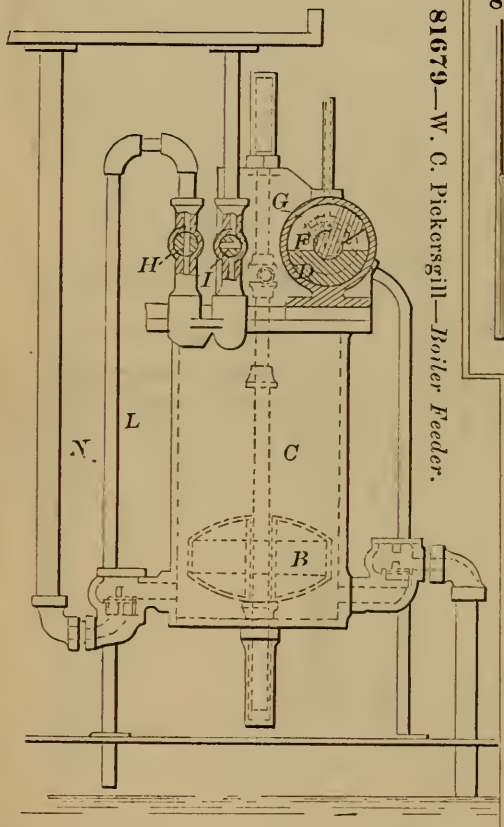
81677—J. W. Pearce—*Car and Track for Inclined Planes.*



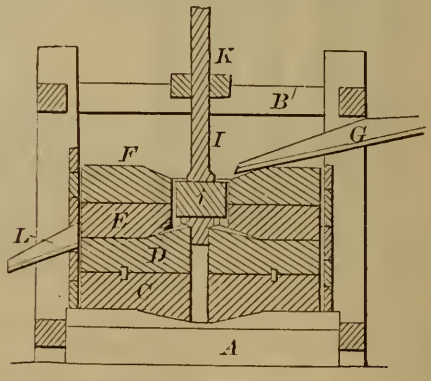
81678—G. R. Peckham—*Wheel for Cages.*



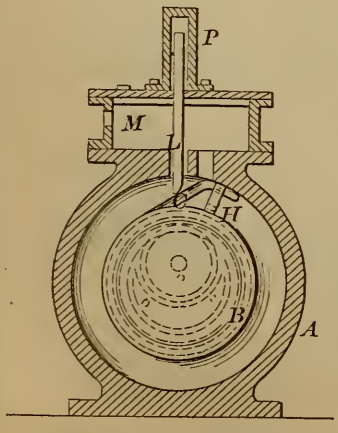
81679—W. C. Pickersgill—*Boiler Feeder.*



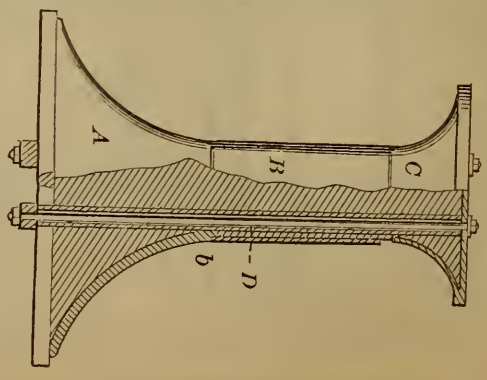
81680—R. Plummer—*Quartz Mill.*



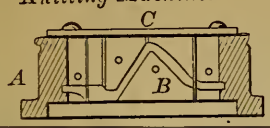
81681—J. Poppe—*Pump.*



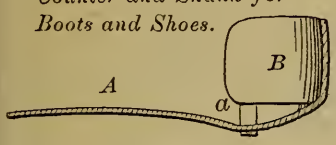
81682—W. B. Porter—*Iron Pier.*



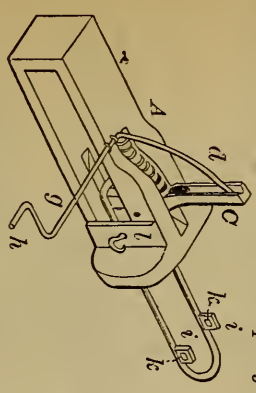
81683—E. K. Pray—*Knitting Machine.*



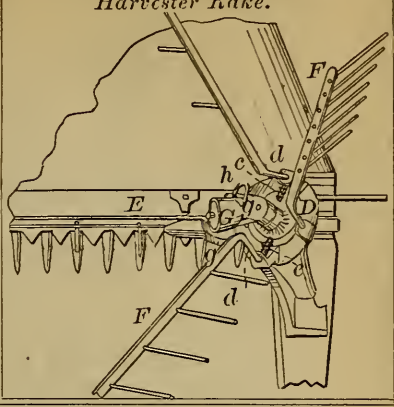
81690—M. E. Savoy—*Counter and Shank for Boots and Shoes.*



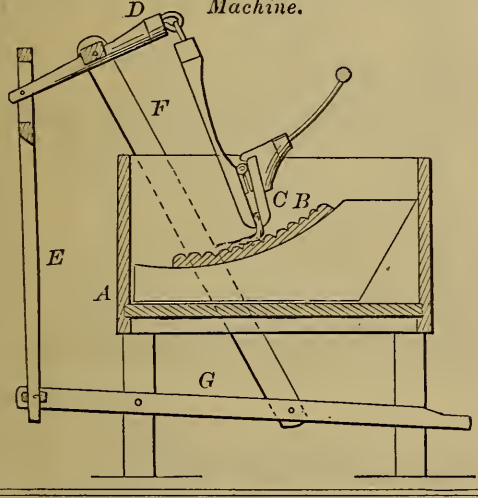
81689—A. Sanders—*Car Coupling.*



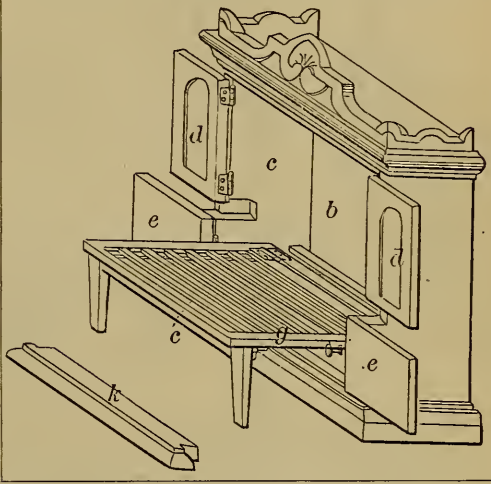
81685—K. H. C. Preston—*Harvester Rake.*



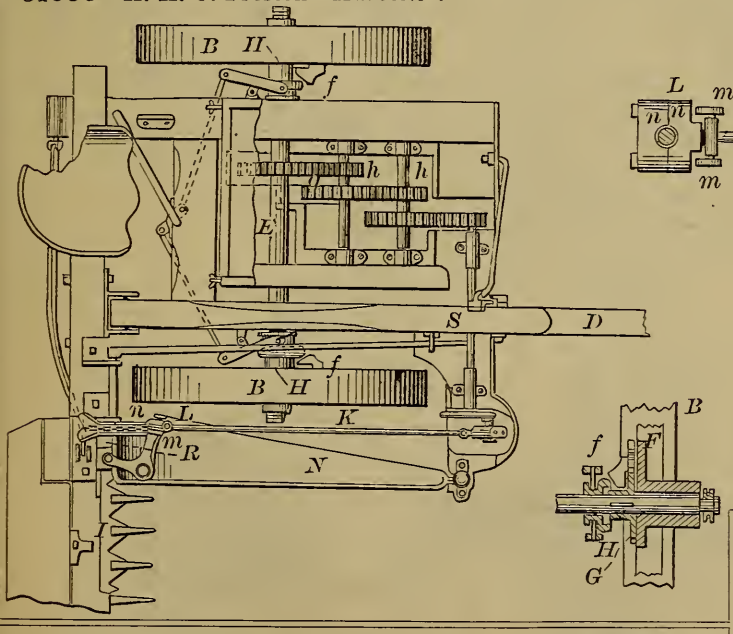
81688—Ross & Adamson—*Washing Machine.*

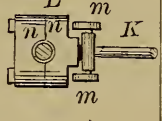


81687—E. Putnam—*Book Case Bedstead.*

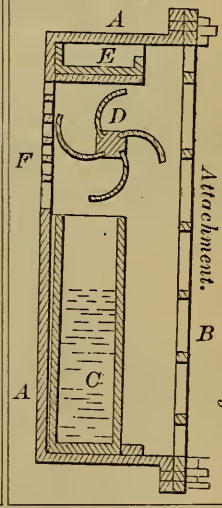


81686—K. H. C. Preston—*Harvester.*

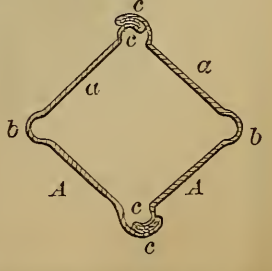




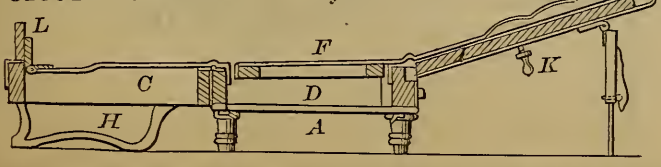
81695—H. Sinclair—*Hot Air Register Attachment.*



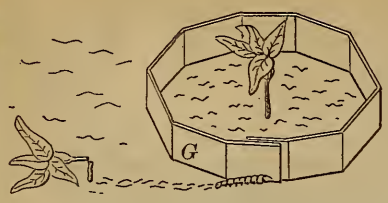
81692—C. Seimel—*Can.*



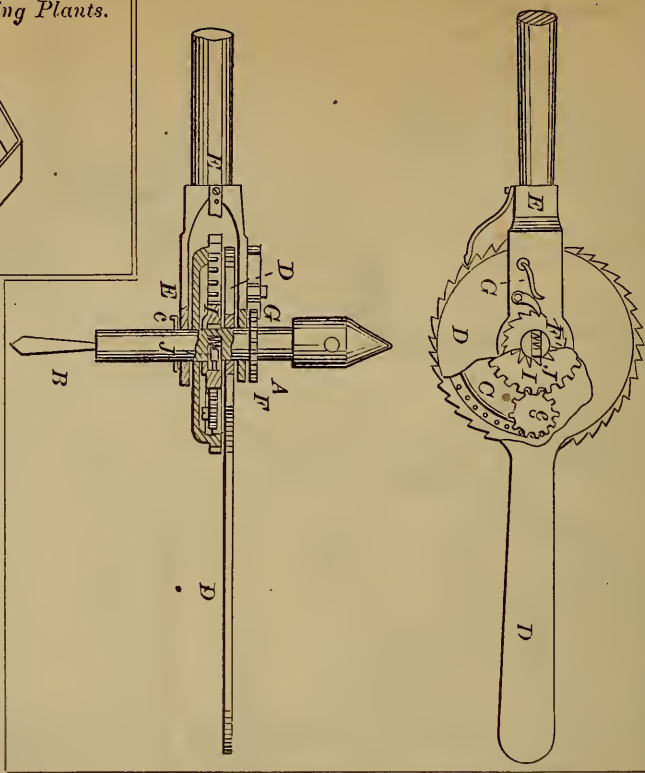
81691—W. H. Schwalbe—*Sofa and Bed.*



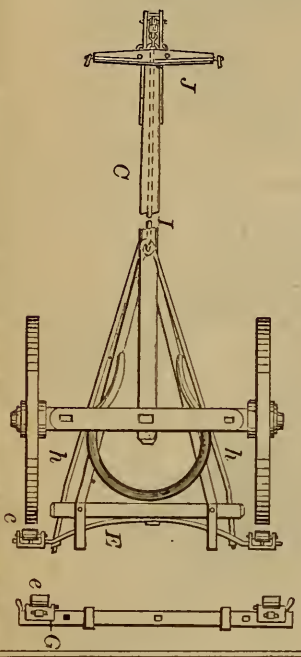
81693—J. Shepard—*Protecting Plants.*



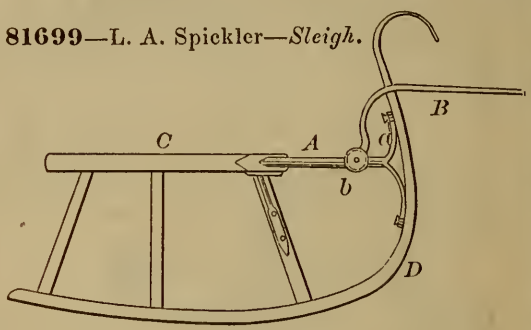
81694—C. Sinclair—*Ratchet Drill.*



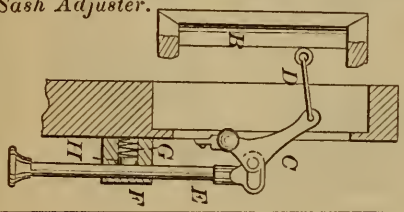
81696—T. Smith—*Wagon Brake.*



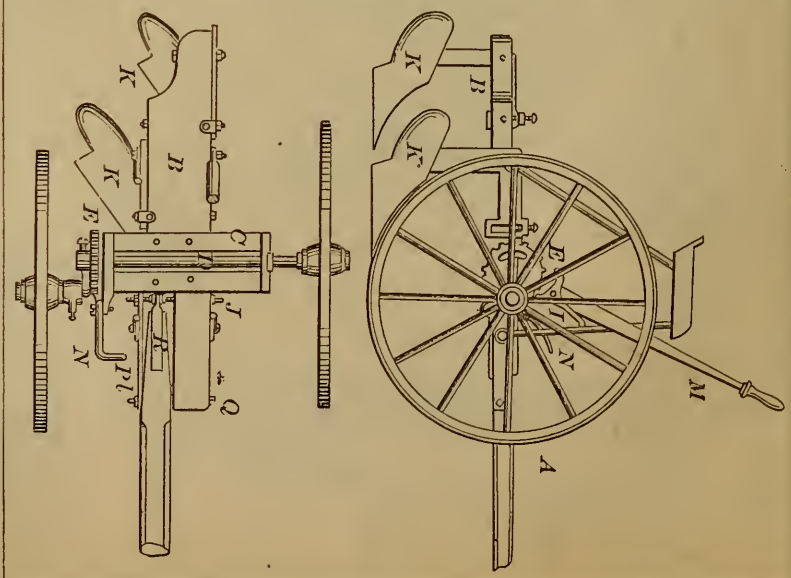
81699—L. A. Spickler—*Sleigh.*



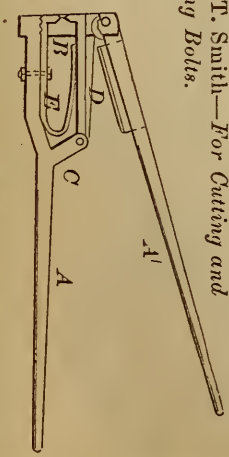
81703—Stickney & McGee—*Ventilating Sash Adjuster.*



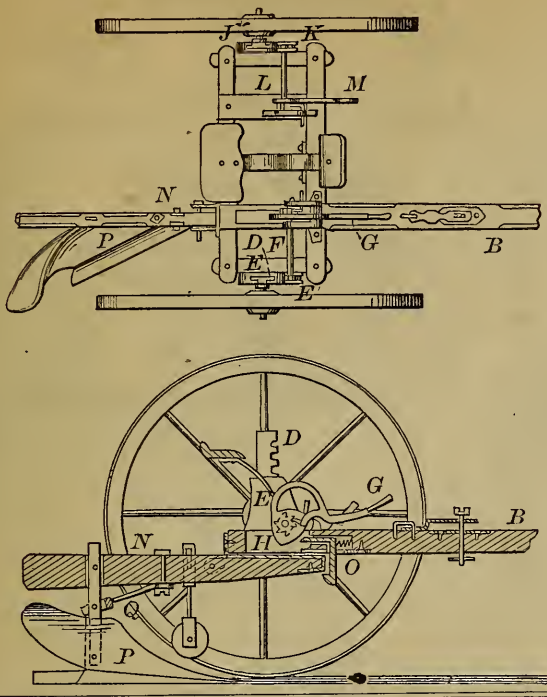
81700—P. H. Standish—*Gang Plow.*



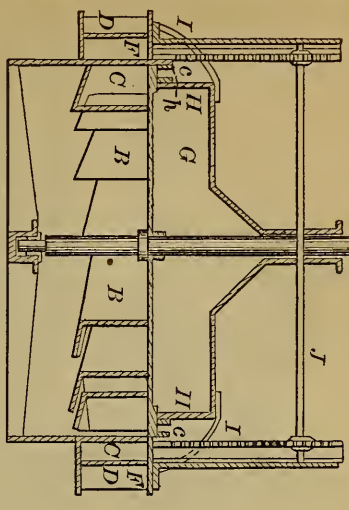
81697—T. Smith—*For Cutting and Shearing Bolts.*



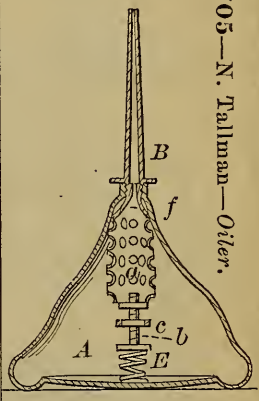
81701—Stanley & Ensign—*Sulky Plow.*



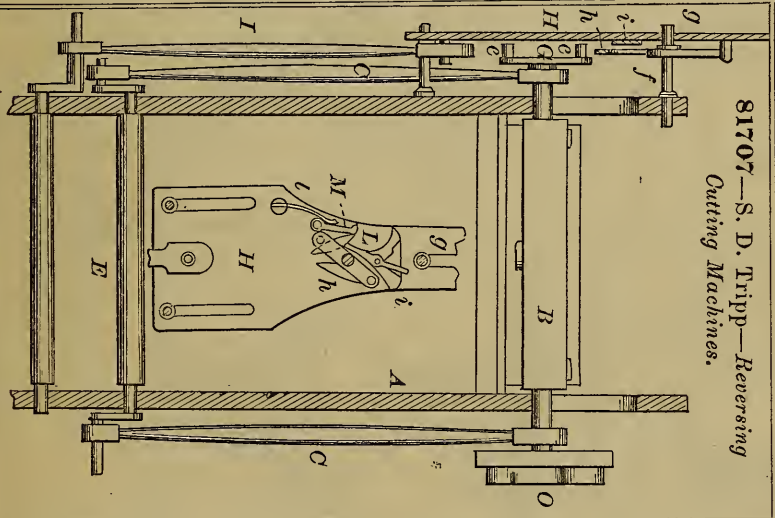
81704—B. Sutherland—*Water Wheel.*



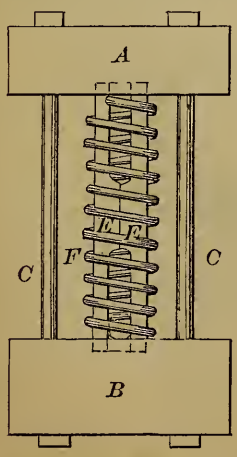
81705—N. Tallman—*Oiler.*



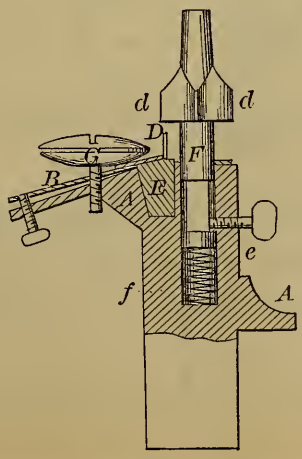
81707—S. D. Tripp—*Reversing Cutting Machines.*



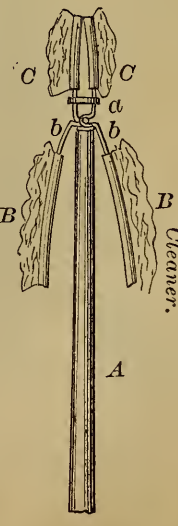
81706—B. C. Taylor—*Horse Hay Rake.*



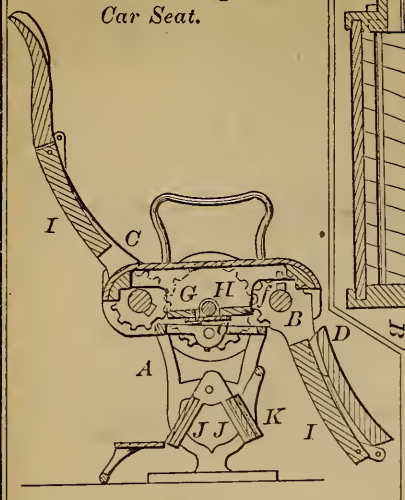
81708—J. Uhl—*Saw Set.*



81710—N. A. Vurgason—*Lamp Chimney Cleaner.*

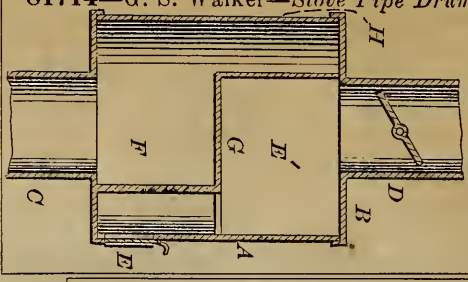


81712—F. F. Wagner—*Car Seat.*

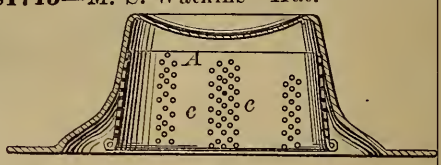


81713—C. W. Wailey—*Paper Reservoir for Compressed Air.*

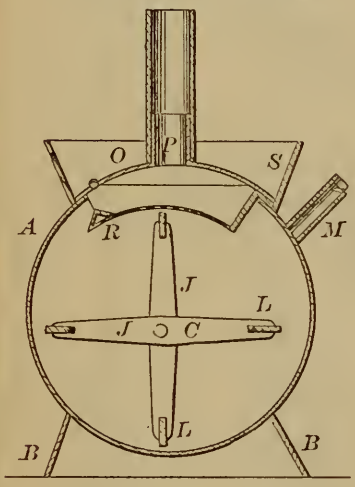
81714—G. S. Walker—*Stove Pipe Drum.*



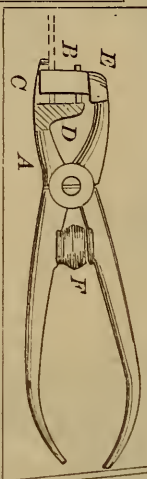
81715—M. S. Watkins—*Hat.*



81716—J. Watts—*Churn.*

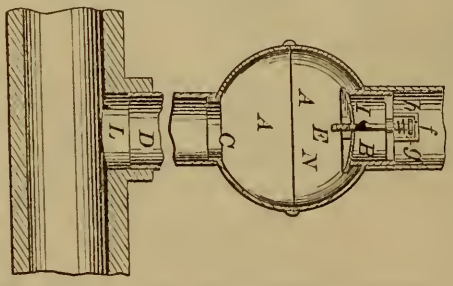


81717—D. M. Weston—*Belt Punch.*

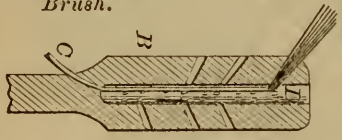


81720—I. Williams—*Adjustable Measuring Rule.*

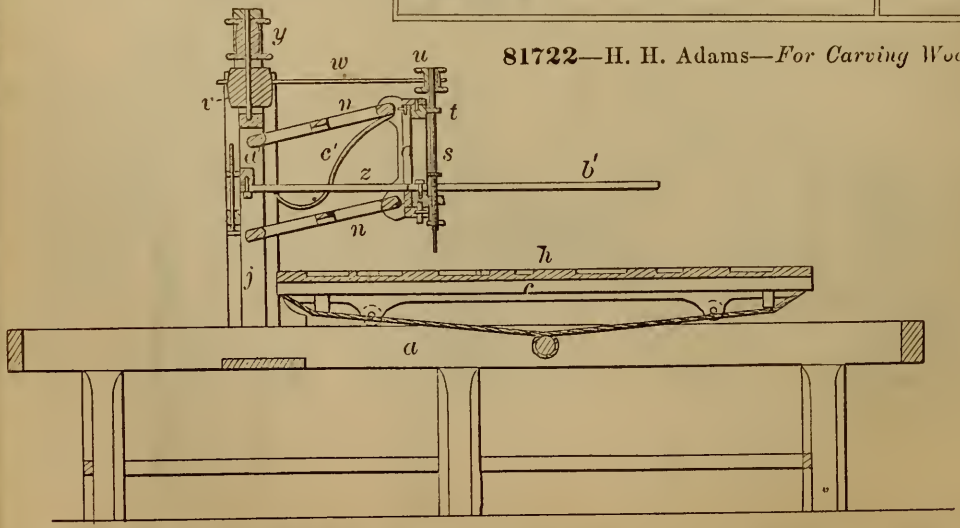
81719—F. H. Williams—*Stench Trap.*



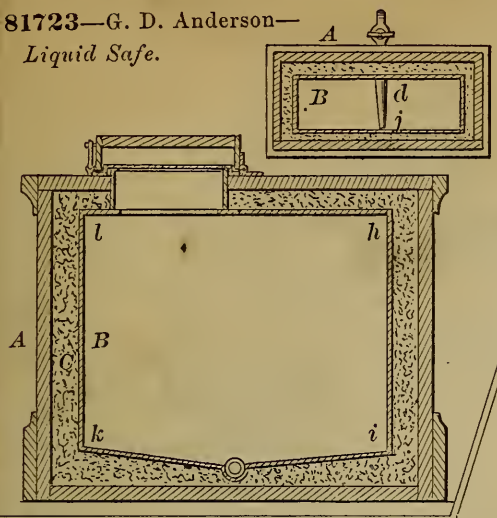
81718—G. Wiesler—*Tumbler Brush.*



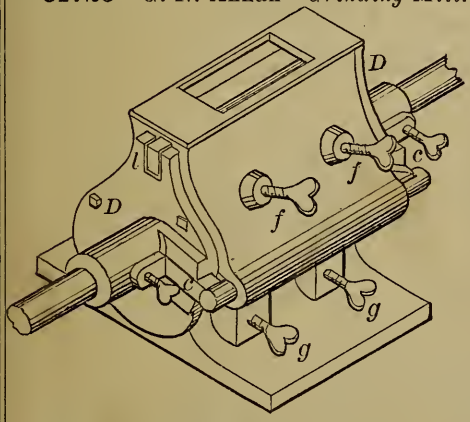
81722—H. H. Adams—*For Carving Wood.*

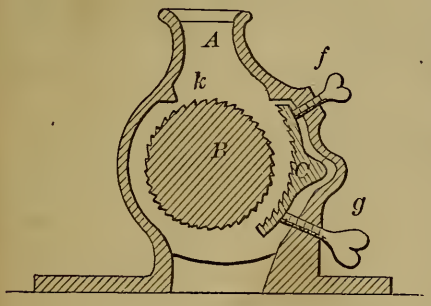


81723—G. D. Anderson—*Liquid Safe.*

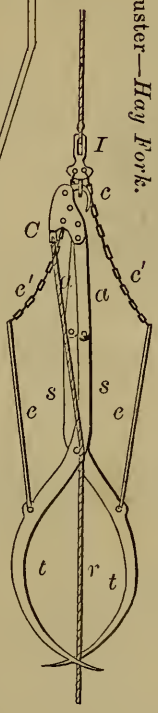


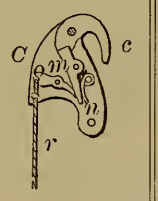
81725—G. N. Annan—*Grinding Mill.*



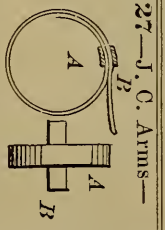


81726—C. S. Ambruster—*Hay Fork.*

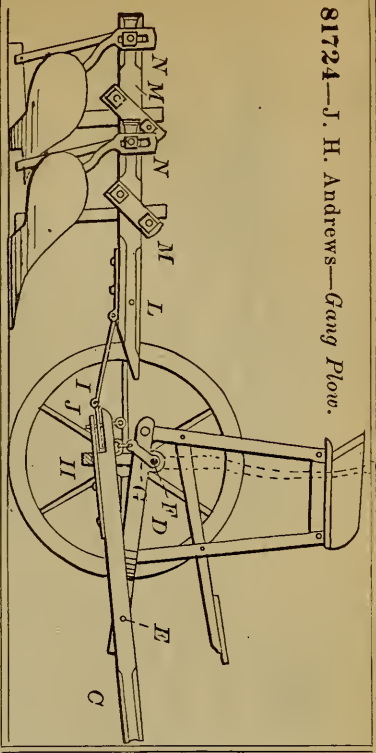




81727—J. C. Arms—*Paper Clasp.*

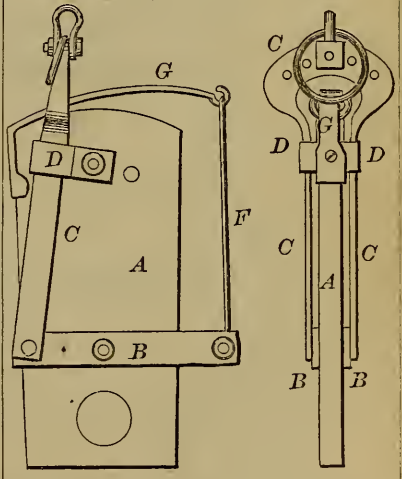


81724—J. H. Andrews—*Gang Plow.*

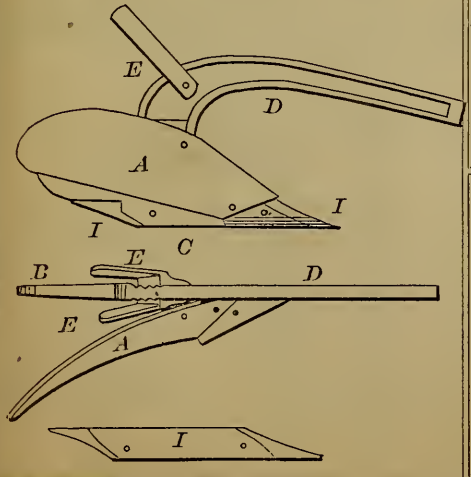


81728—J. Autenrieth—*Cork Extractor.*

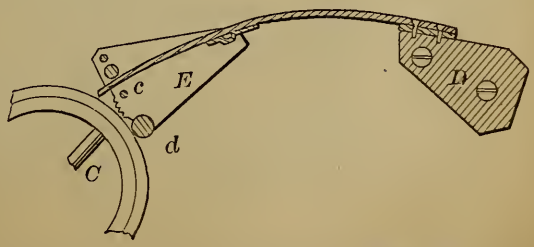
81731—J. Ball—*Plow Clevis.*



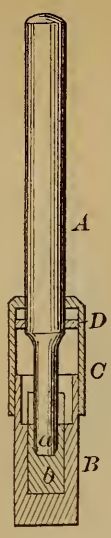
81730—J. Ball—*Plow.*



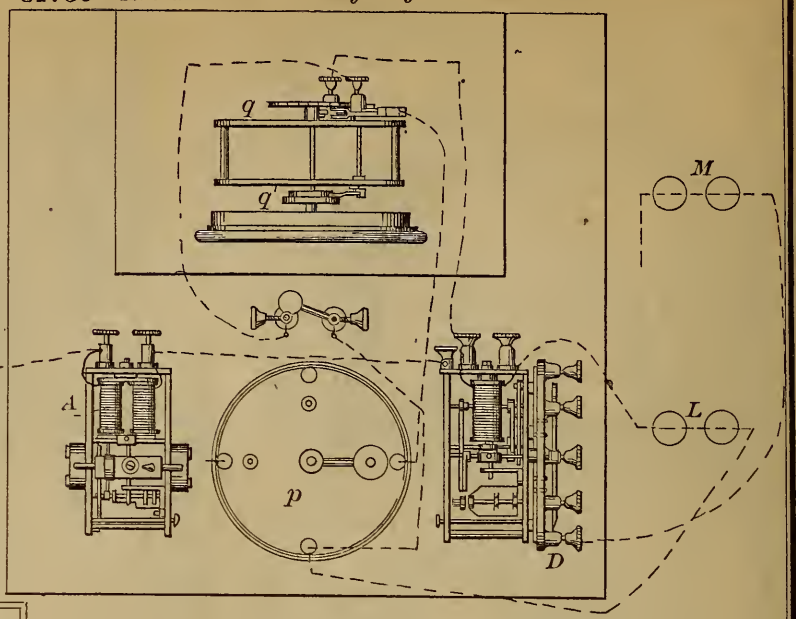
81729—D. S. Baker—*Machinery Brake.*



81732—J. B. Bancroft—*Spindle Step*

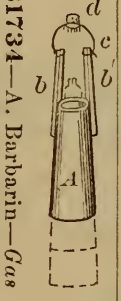


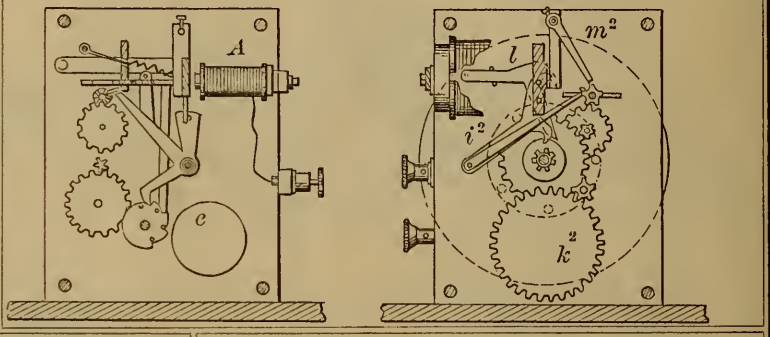
81735—A. Barbarin—*For Lighting Gas.*



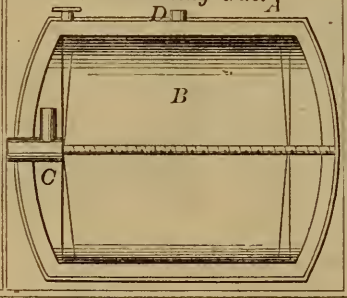
81733—A. Barbarin—*Gas Burner.*

81734—A. Barbarin—*Gas Burner.*

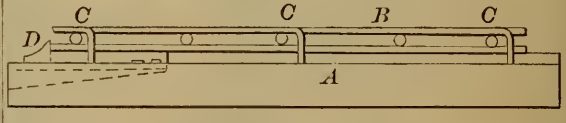




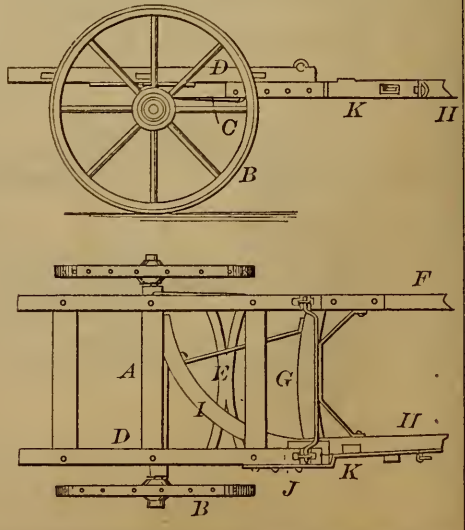
81736—J. A. Bassett—*For Carburetting Gas.*



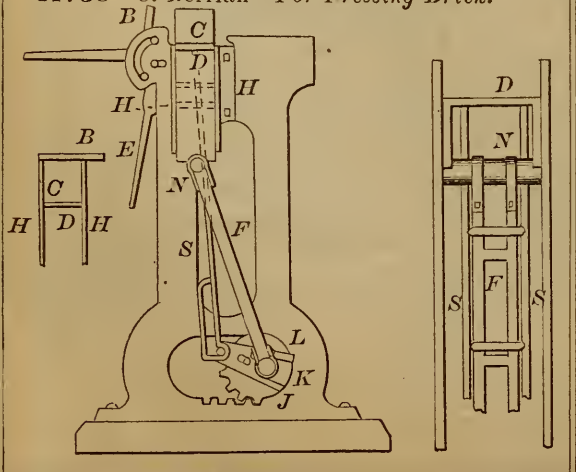
81739—E. Birkenshaw—*Teasling Machine.*



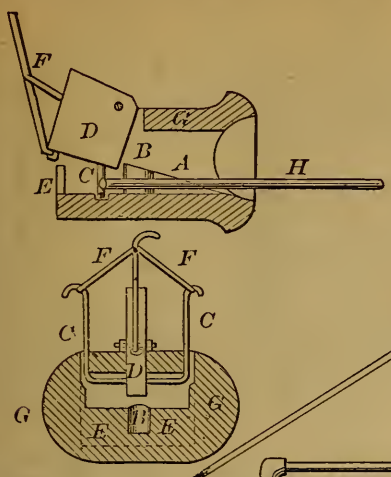
81737—A. Bean—*Vehicle Shaft.*



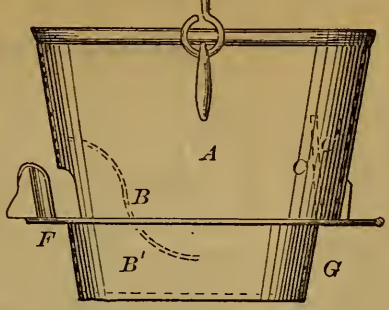
81738—C. Berrian—*For Pressing Brick.*



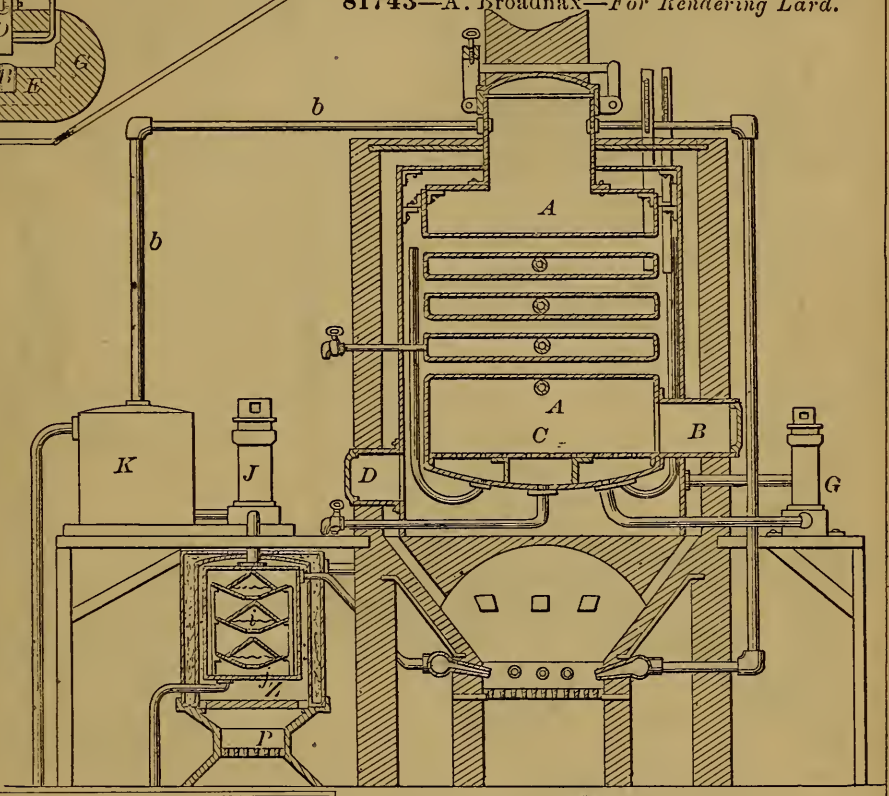
81741—T. H. Bomar—*Car Coupling.*



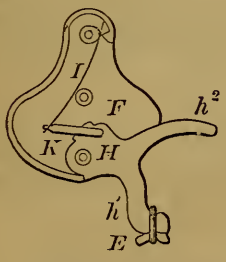
81742—C. W. Briggs—*Charcoal Furnace.*

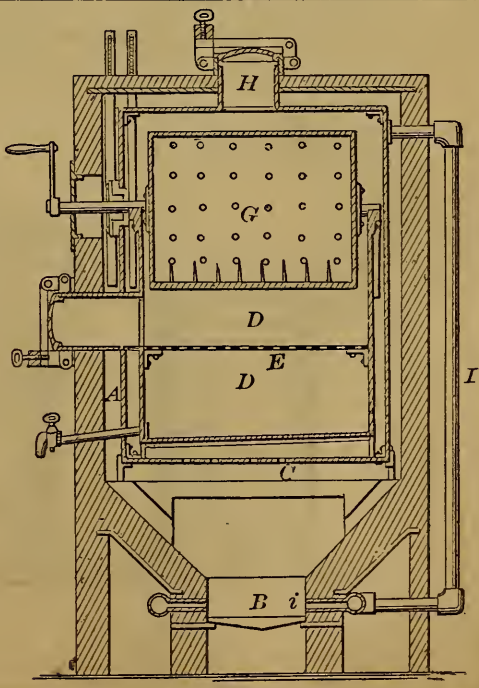


81743—A. Broadnax—*For Rendering Lard.*

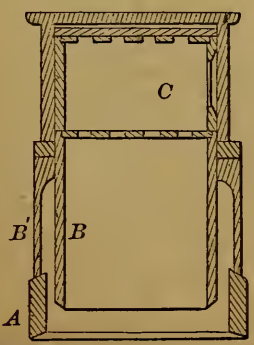


81746—G. C. Bunsen—*Door Holder.*

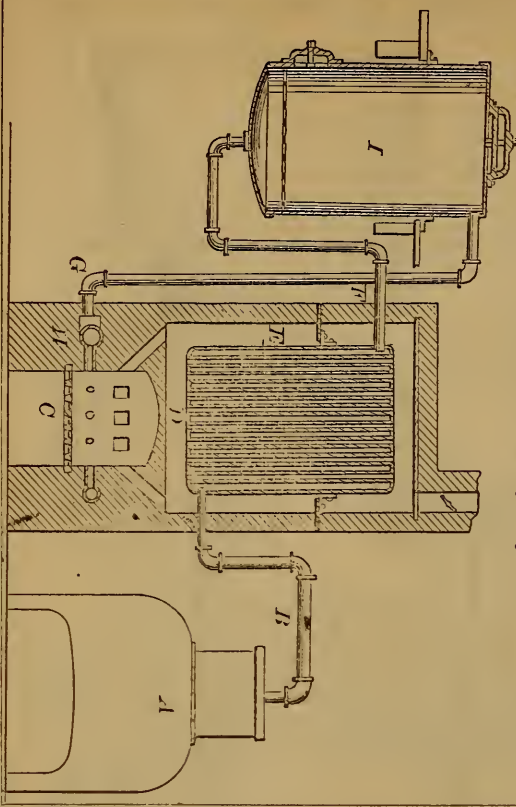




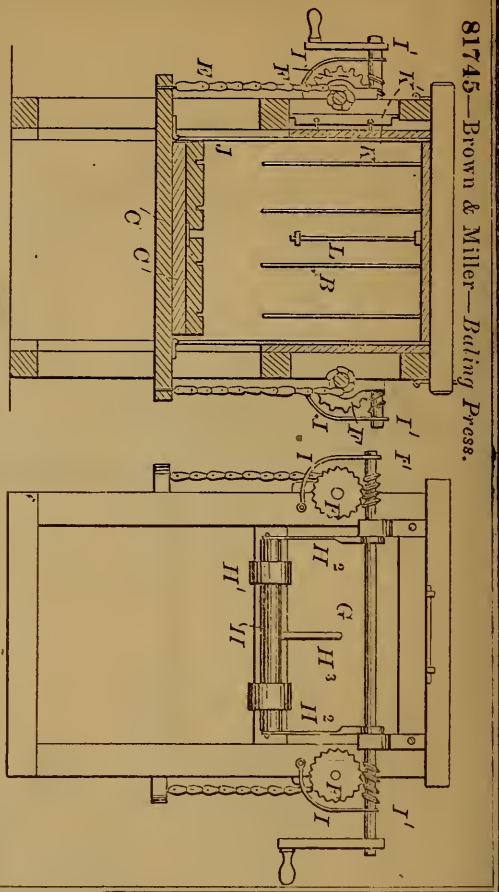
81747—H. Burton—*Beehive.*



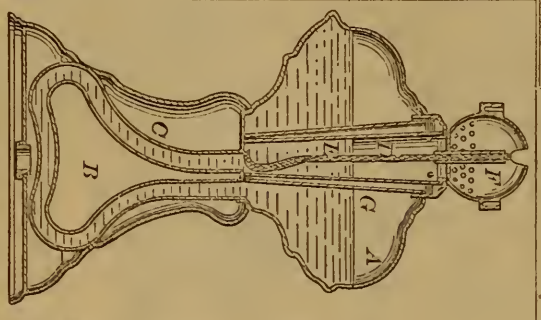
81744—A. Broadnax—*Rendering and Refining Lard.*



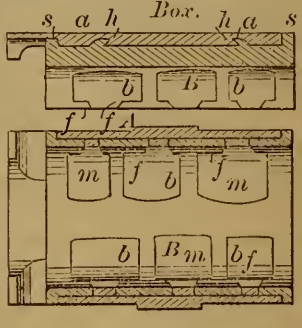
81745—Brown & Miller—*Baling Press.*



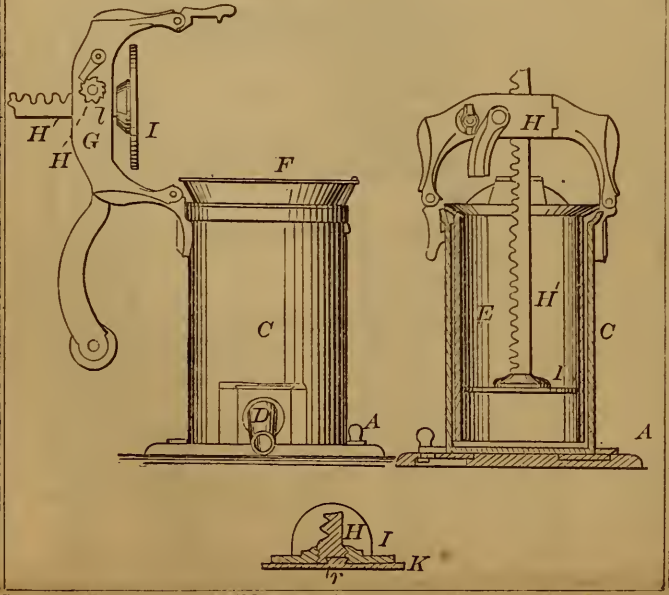
81749—J. Calkins—*Lamp.*



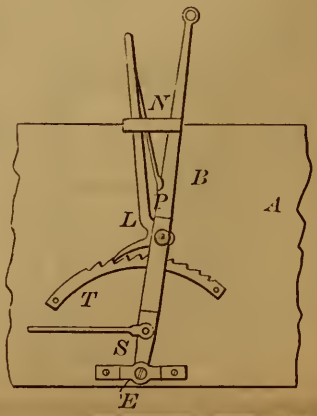
81748—A. B. Caldwell—*Journal Box.*



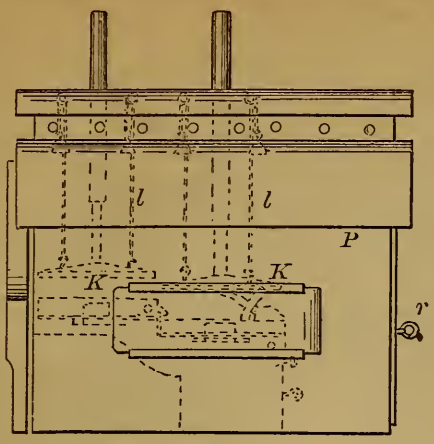
81751—J. B. Cassell—*Lard Press and Sausage Stuffer.*

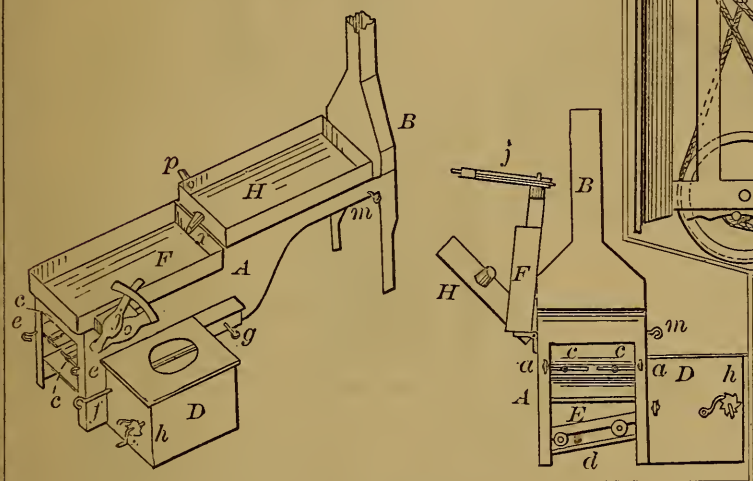


81750—D. W. Carkhuff—*For Operating Wagon Brakes.*

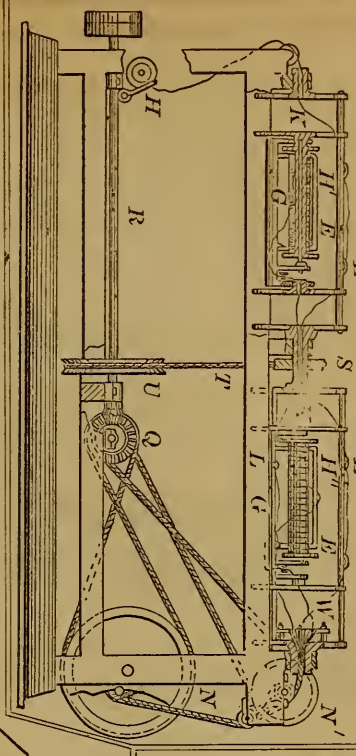


81752—B. F. Cauffman—*Evaporator.*

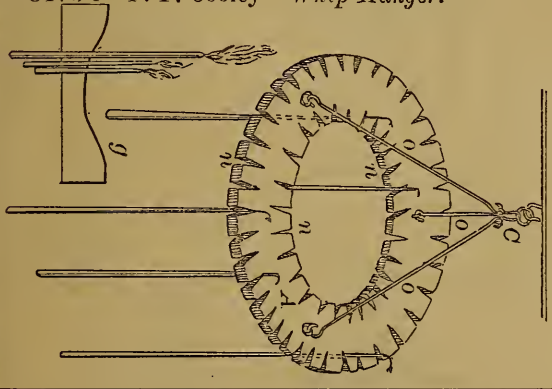




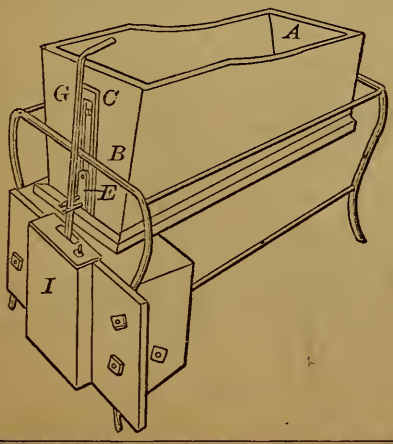
81753—C. Clark—*Rope Making Machine.*



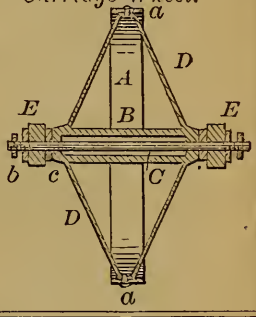
81754—P. F. Cooley—*Whip Hanger.*



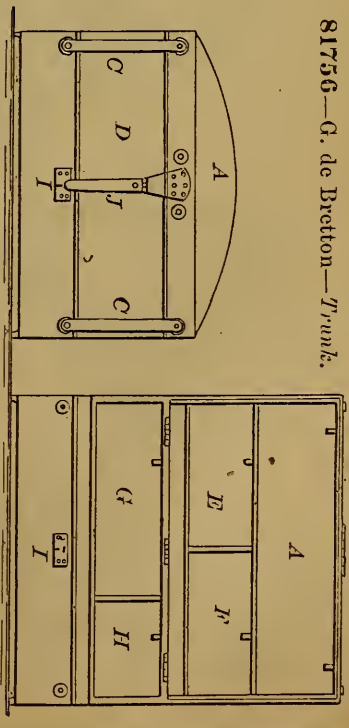
81757—S. G. Delano—*Automatic Cradle.*



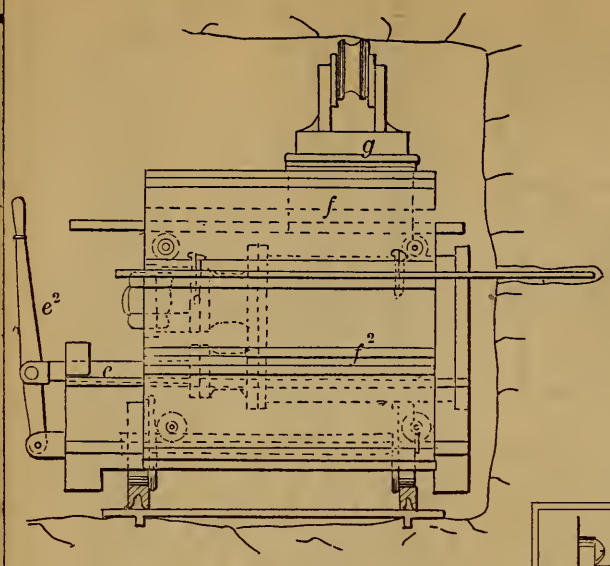
81758—W. H. De Valin—*Carriage Wheel.*



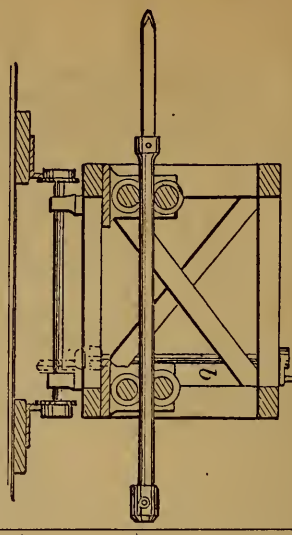
81756—G. de Bretton—*Trunk.*



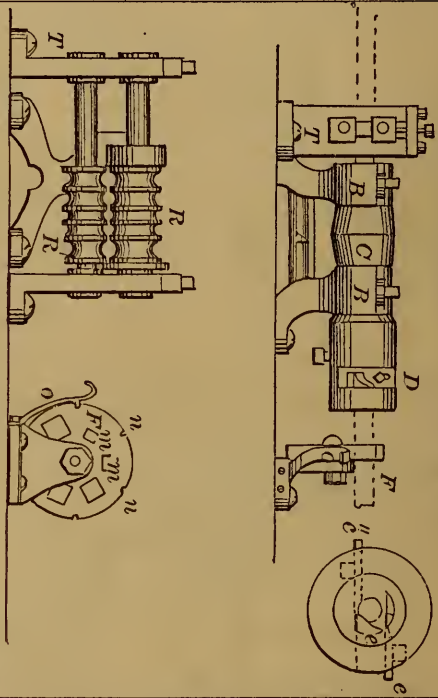
81759—G. E. Donisthorpe—*Coal Mining Apparatus.*



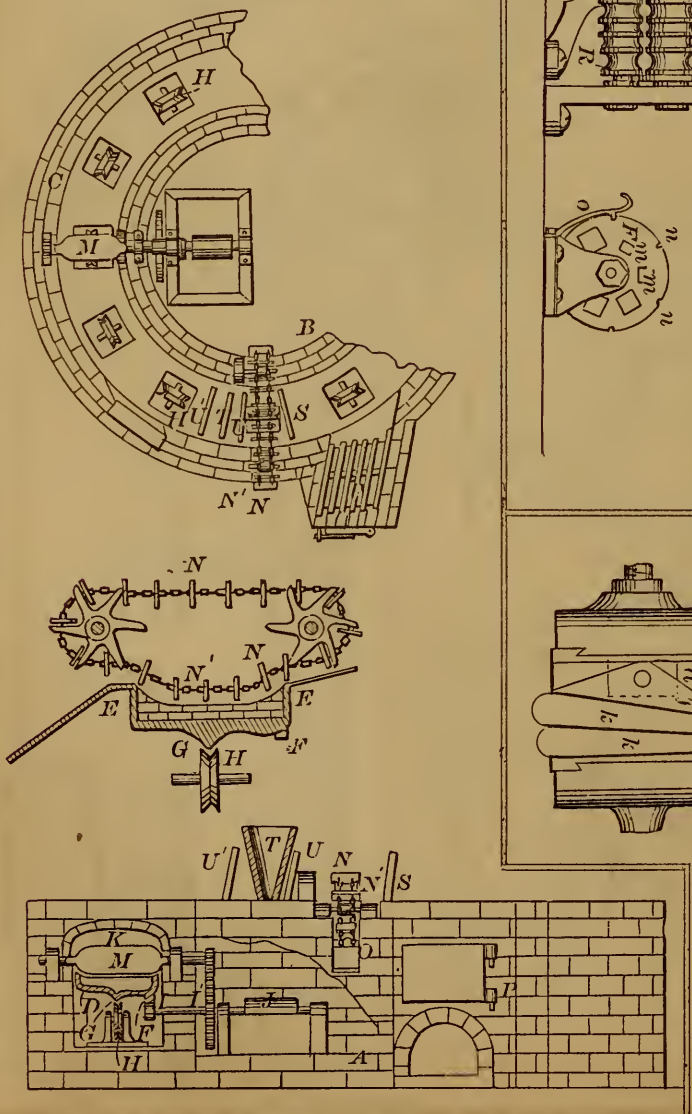
81760—G. E. Donisthorpe—*Coal Mining Apparatus.*



81761—F. Douglas—*For Turning Rods.*

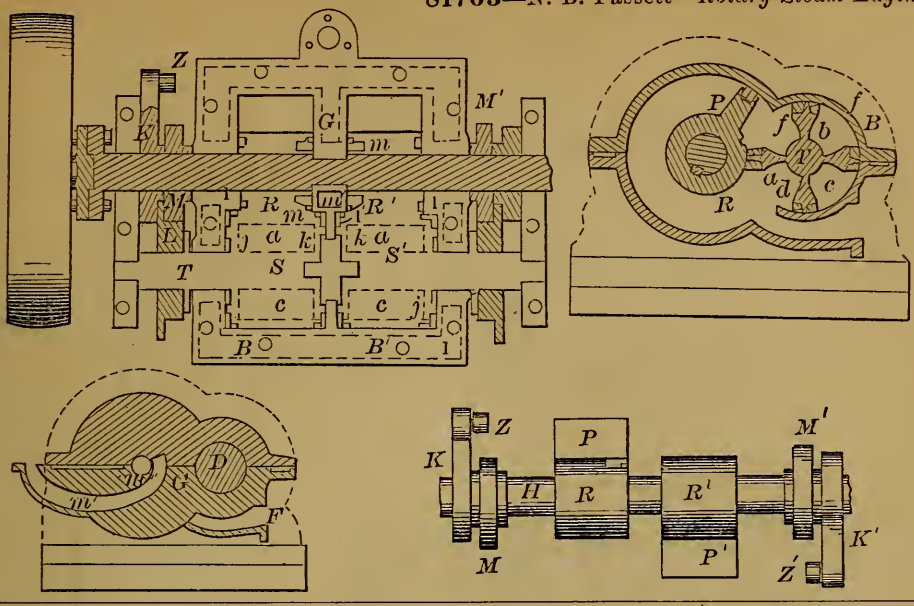


81762—F. Ernst—*Ore Roasting Furnace.*

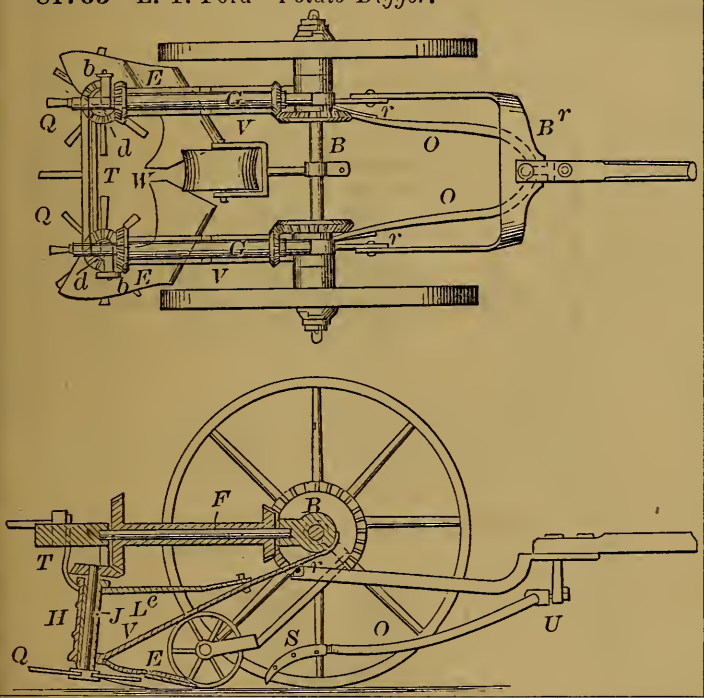


81764—I. Fisher—*Vise.*

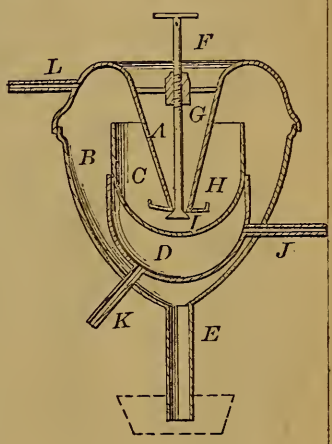
81763—N. B. Fassett—*Rotary Steam Engine.*



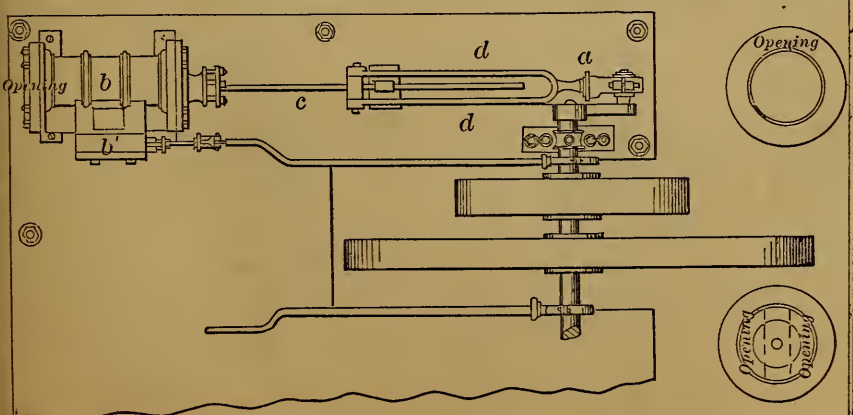
81765—E. T. Ford—*Potato Digger.*



81767—W. M. Fuller—*For Amalgamating Gold and Silver.*

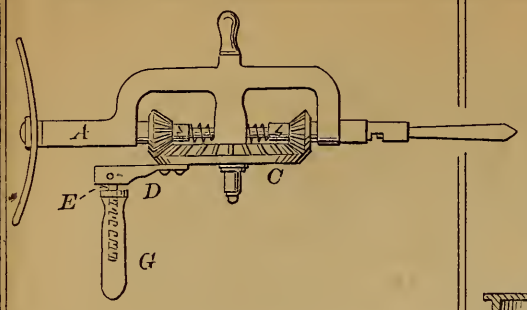


81766—A. C. F. Franklin—*Reciprocating Steam Engine.*

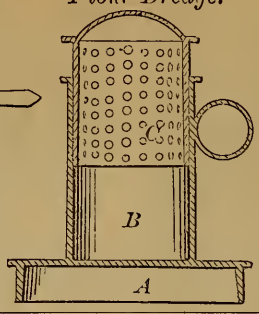


81768—W. P. Gilbert—*Carriage Shackle.*

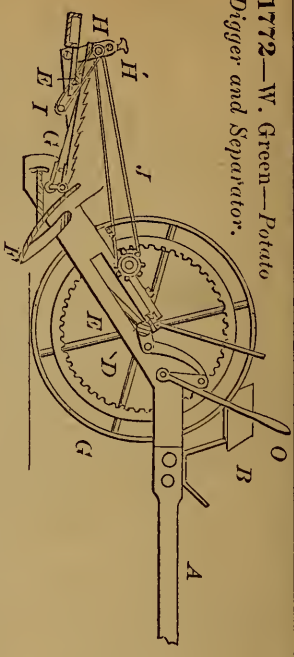
81769—F. Glasser—*Drill.*



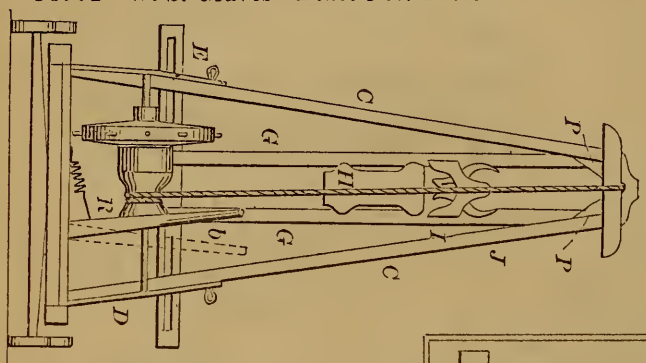
81770—F. A. Goodes—*Flour Dredge.*



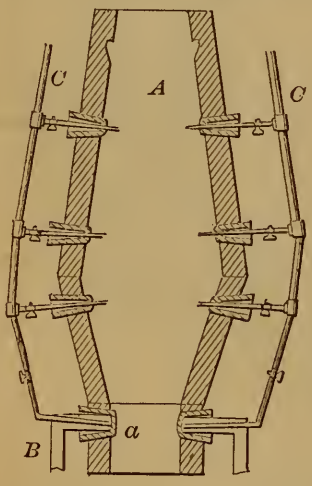
81772—W. Green—*Potato Digger and Separator.*



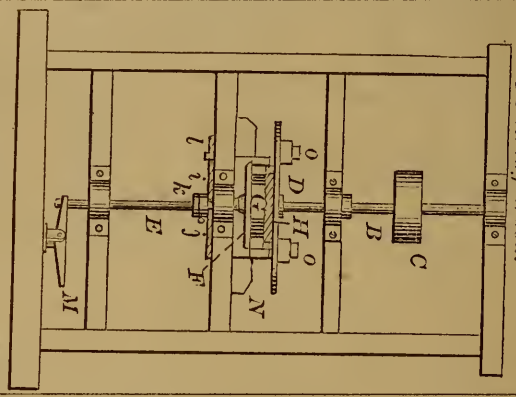
81771—W. S. Graves—*Fence Post Driver.*



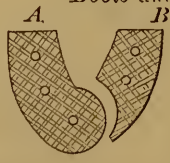
81775—A. Hamar—*Making Iron.*



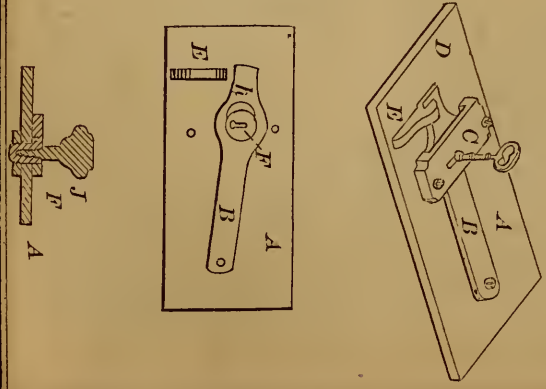
81774—S. Hagaman—*For Polishing Wood.*



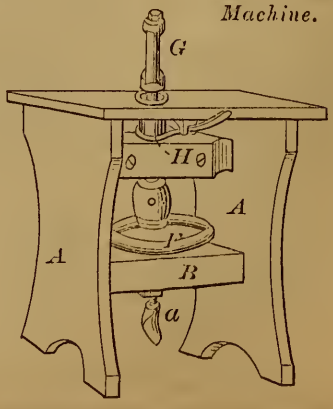
81777—W. E. Hamlin, Jr.—*Heel Plate for Boots and Shoes.*



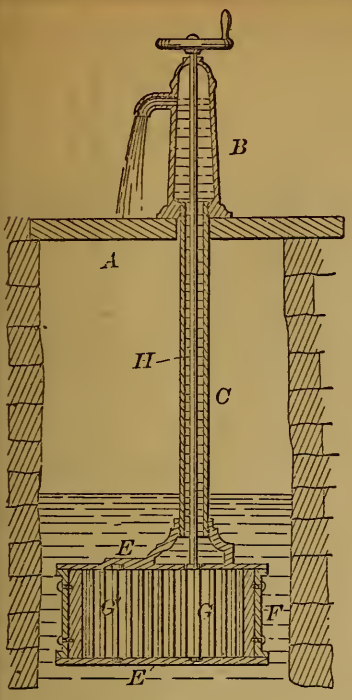
81779—Hardy & Floyd—*Locking Latches.*



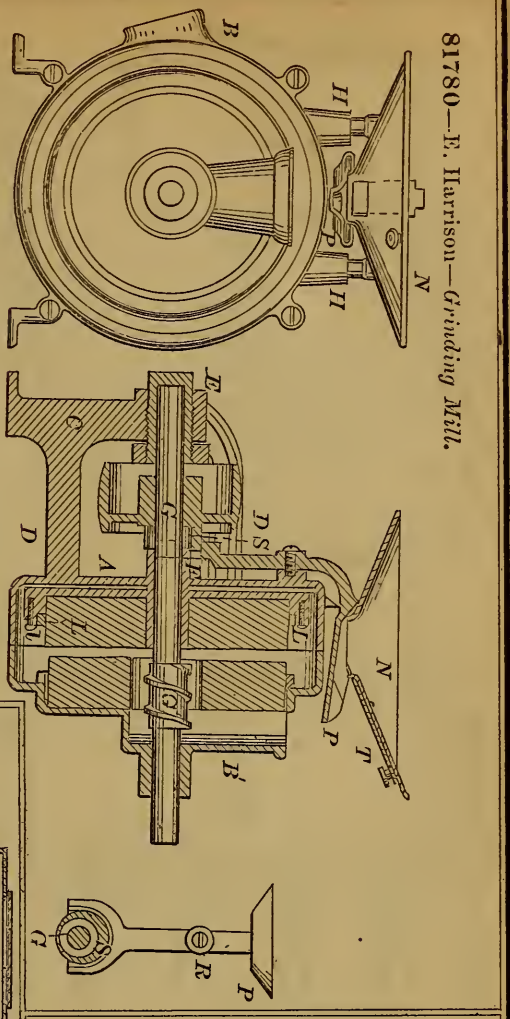
81776—S. M. Hamilton—*Planing Machine.*



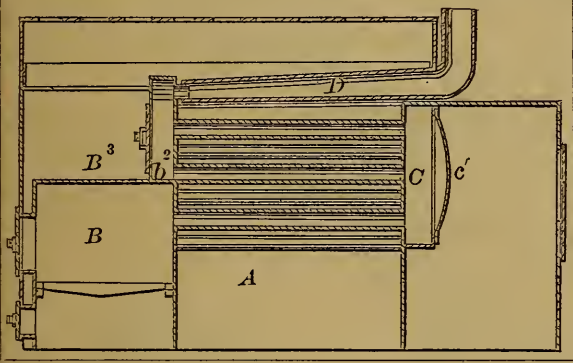
81778—D. D. Hardy—*Submerged Rotary Pump.*



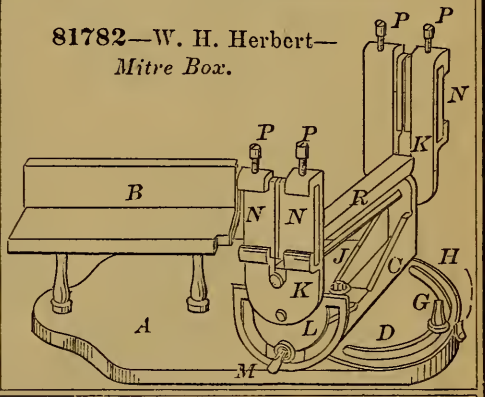
81780—E. Harrison—*Grinding Mill.*



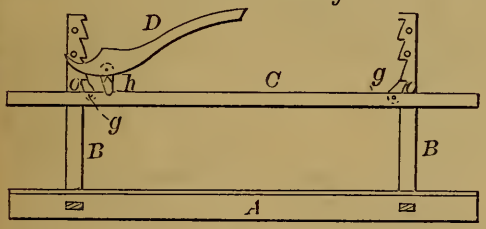
81781—B. R. Hawley—*Tubular Air Heater.*



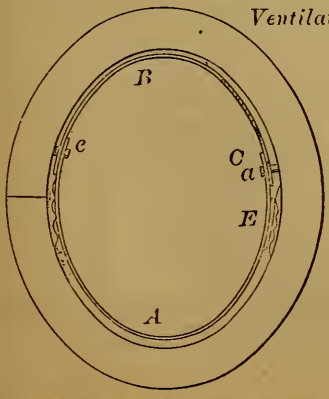
81782—W. H. Herbert—*Mitre Box.*



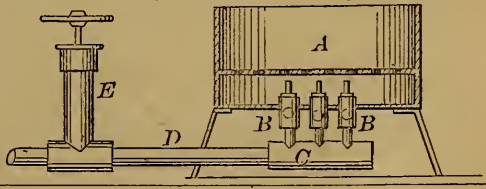
81783—J. W. Hodges—*For Binding Hay upon Wagons.*

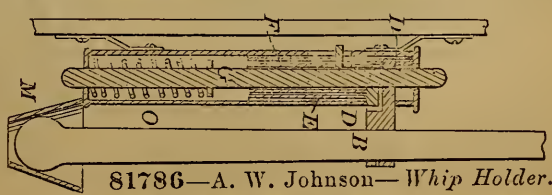


81784—Irvine & Moses—*Hat Ventilator.*

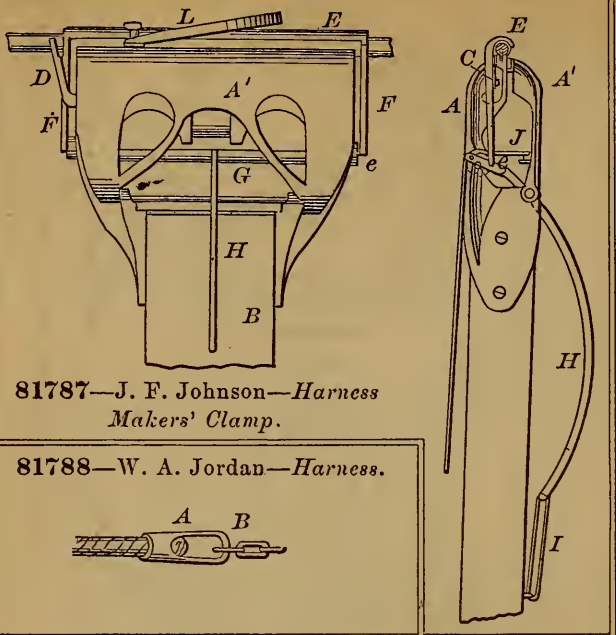


81785—F. Jacoby—*For Extracting Wort.*





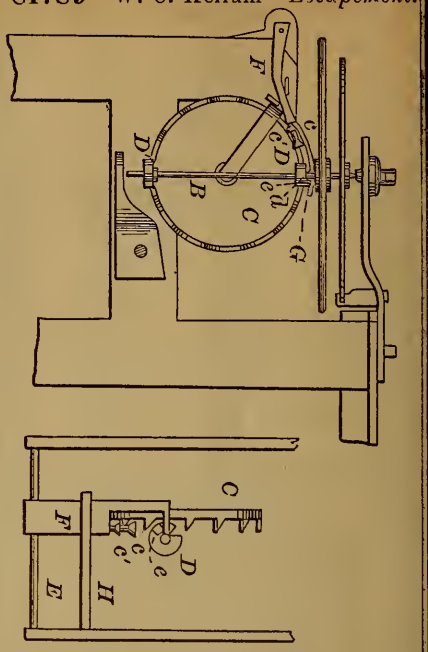
81786—A. W. Johnson—*Whip Holder.*



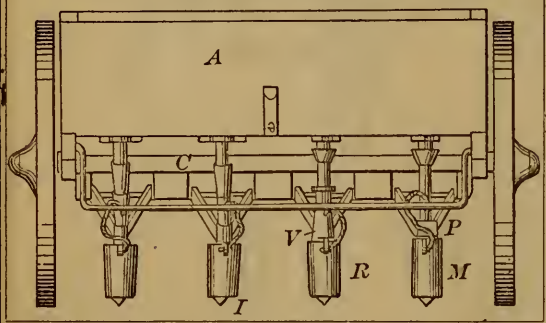
81787—J. F. Johnson—*Harness Makers' Clamp.*

81788—W. A. Jordan—*Harness.*

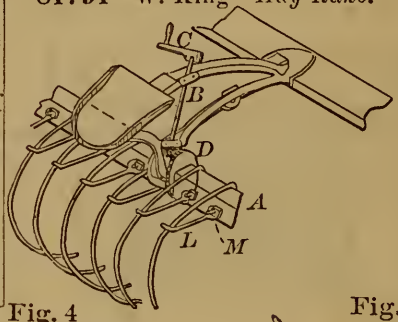
81789—W. C. Kellum—*Escapement.*



81790—King & Shope—*Seeding Machine.*



81791—W. King—*Hay Rake.*



81795—C. Kupfer—*Plane for Cutting Blind Slats.*

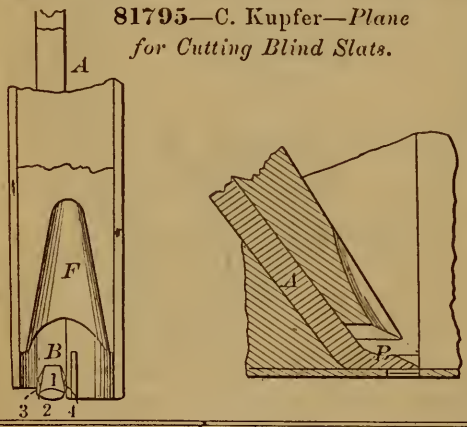


Fig. 4

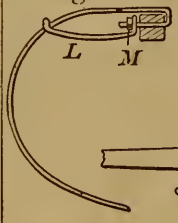
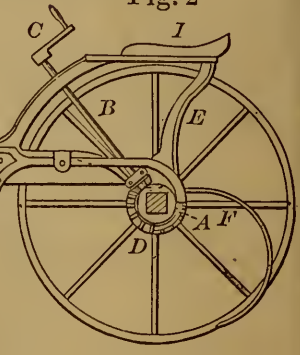
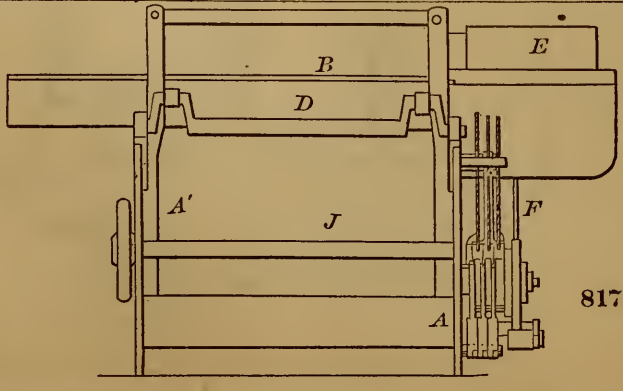
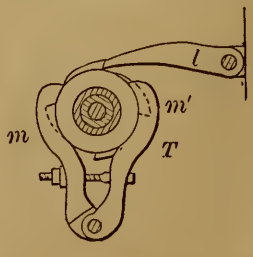


Fig. 2

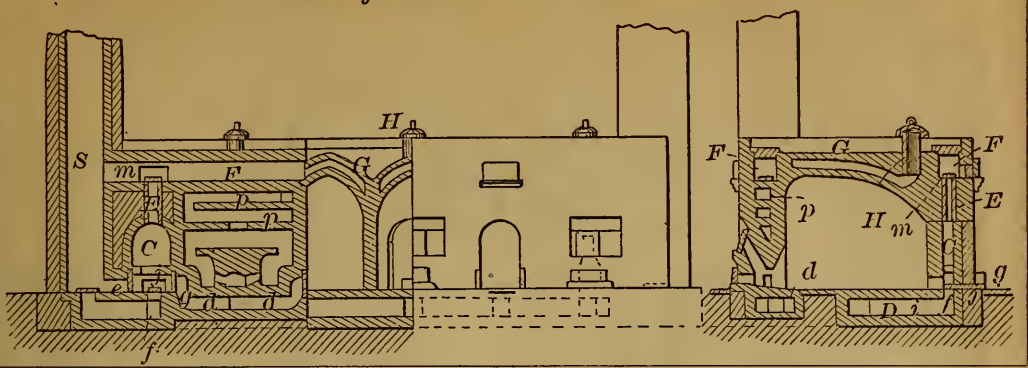




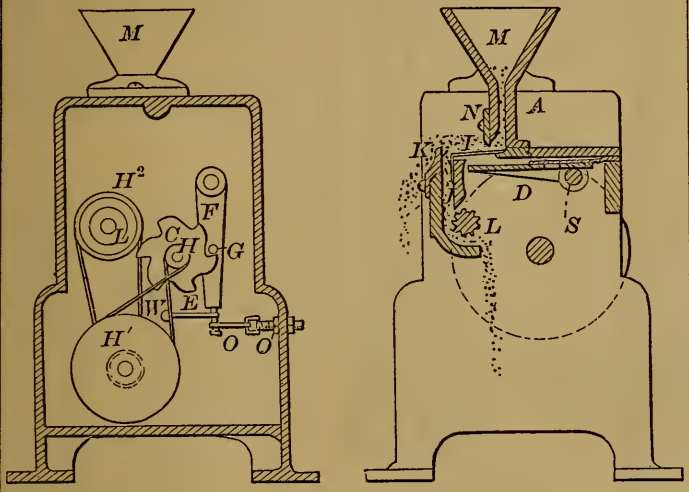


81792—C. H. Knowlton—*Cam for for Shuttle Boxes.*

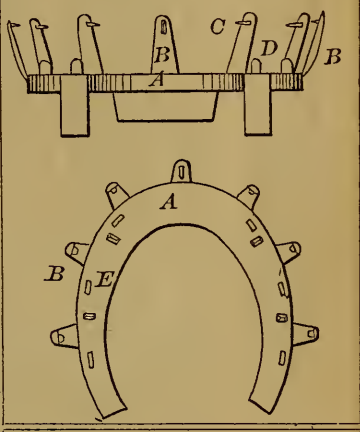
81793—B. Kreischer—*Burning Kiln.*



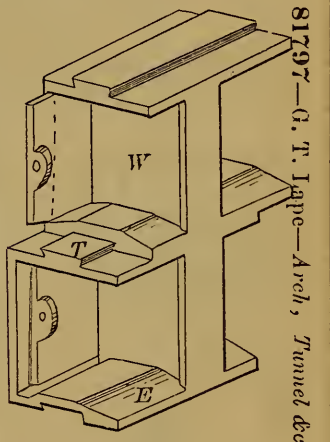
81794—S. R. Krom—*For Separating Ores.*



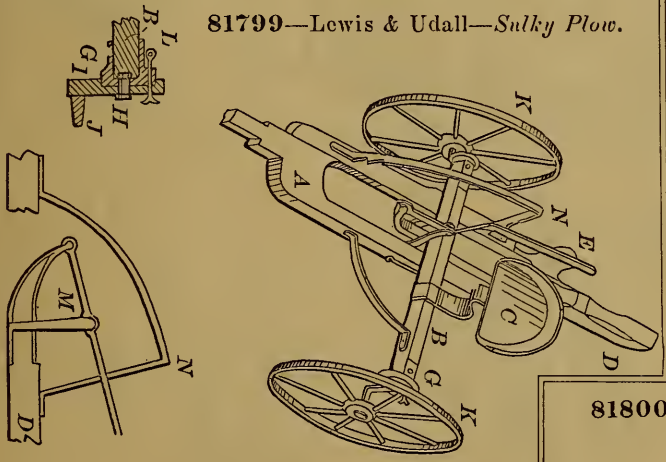
81796—B. Ladd—*Horse Shoe.*



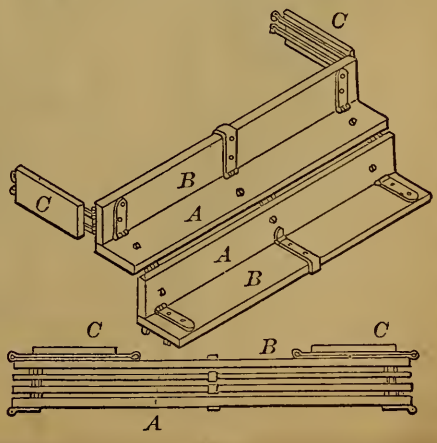
81797—G. T. Lape—*Arch, Tunnel &c.*



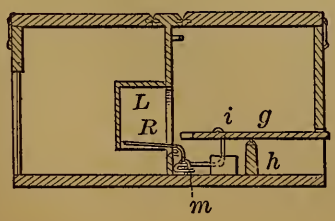
81799—Lewis & Udall—*Sulky Plow.*



81800—T. E. Lewis—*Wagon Body.*

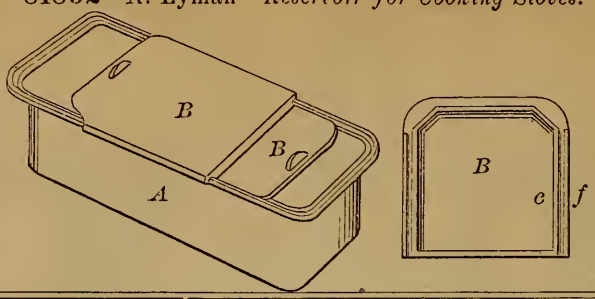


81798—H. S. Lesher—*Animal Trap.*

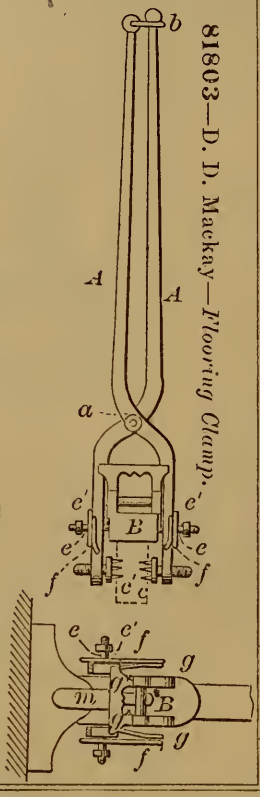


81801—L. Lovejoy—*Well Tube.*

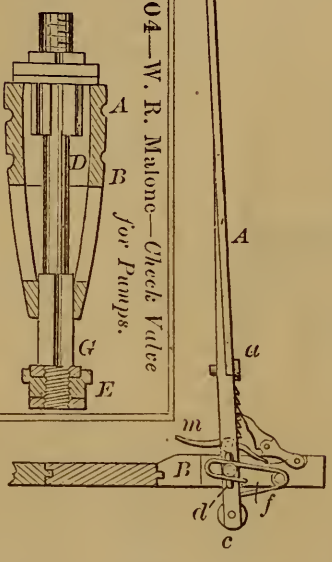
81802—A. Lyman—*Reservoir for Cooking Stoves.*



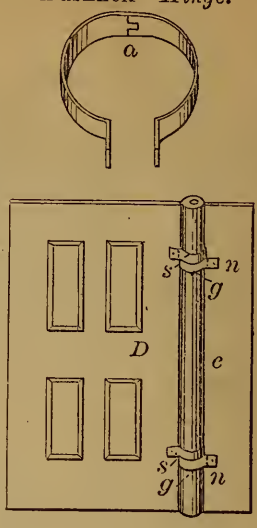
81803—D. D. Mackay—*Flooring Clamp.*



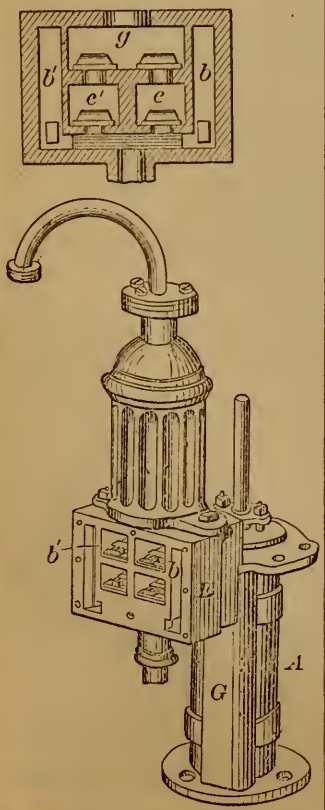
81804—W. R. Malone—*Check Valve for Pumps.*



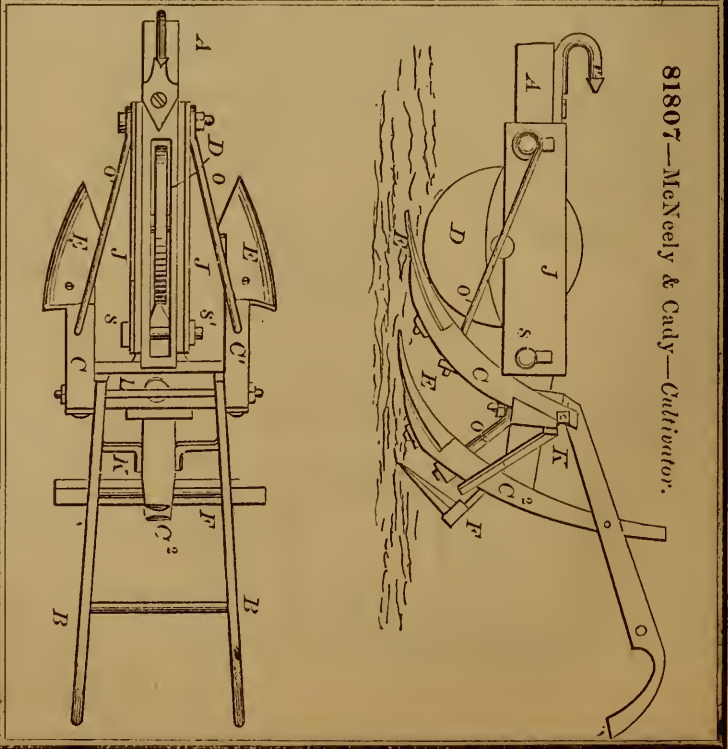
81805—McCall & Bushnell—*Hinge.*



81806—T. J. McGowan—*Pump.*

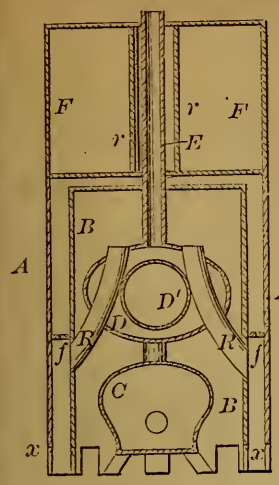


81807—McNeely & Cady—*Cultivator.*

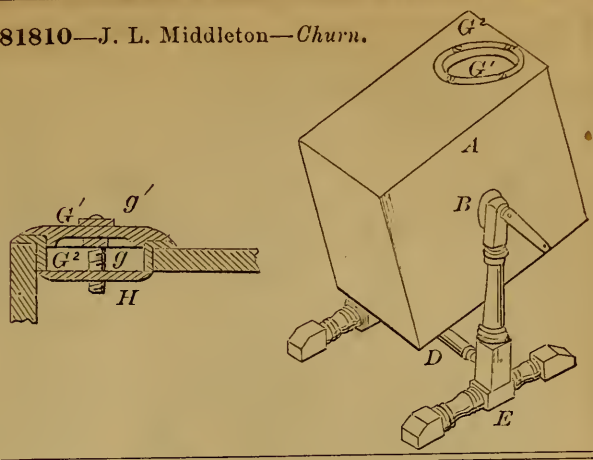


81808—J. D. Meador—*Moth Trap for Beehives.*

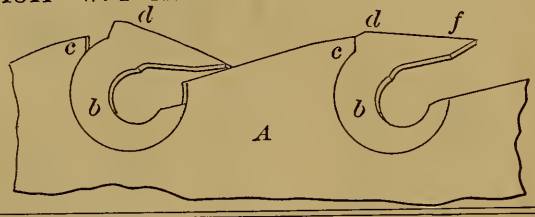
81809—M. Metcalf—*Hot Air Furnace.*



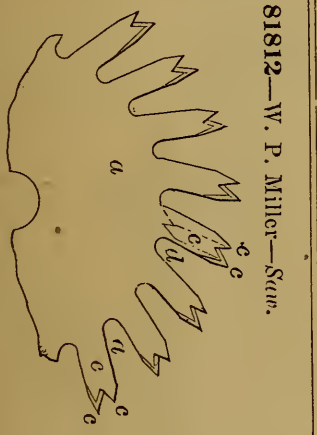
81810—J. L. Middleton—*Churn.*



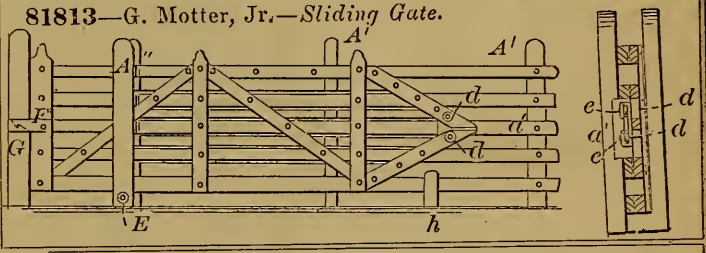
81811—W. P Miller—*Saw.*



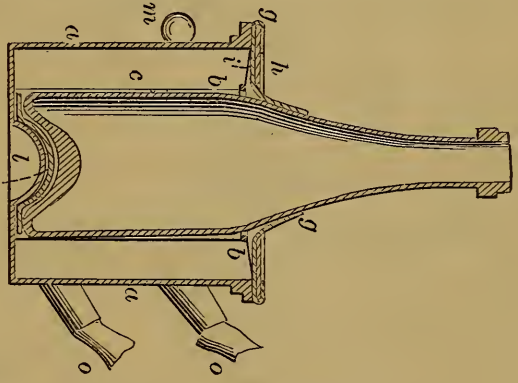
81812—W. P. Miller—*Saw.*



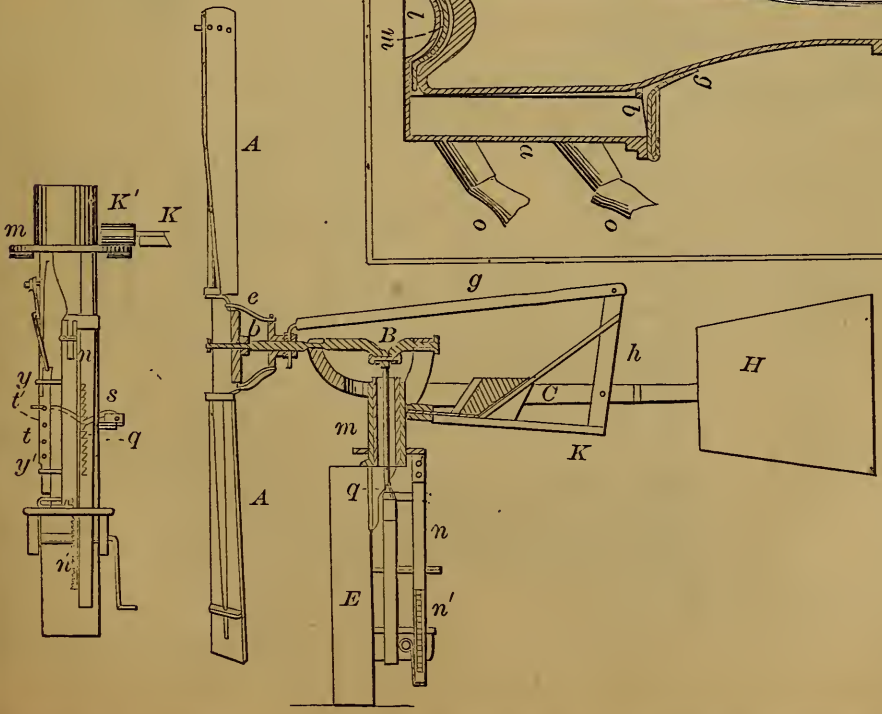
81813—G. Motter, Jr.—*Sliding Gate.*



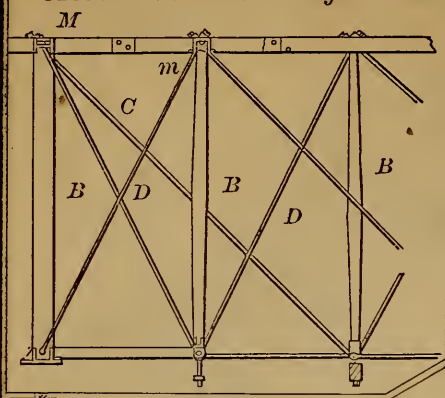
81814—Nuellons & Neuhaus—*Wine Cooler.*



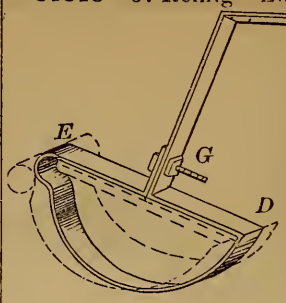
81816—W. Peck—*Windmill.*



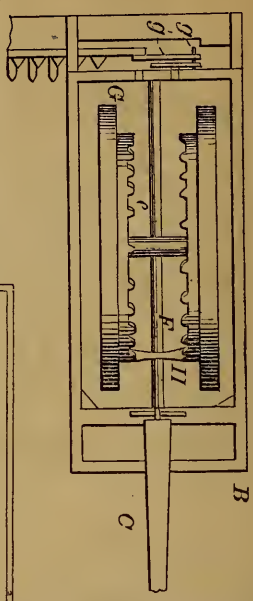
81817—A. J. Post—*Bridge.*



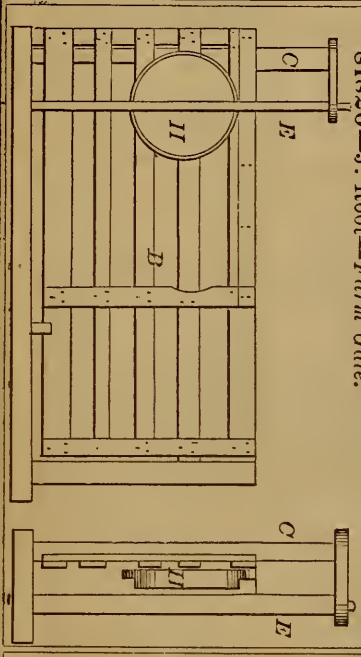
81818—J. Reinig—*Eavestrough.*



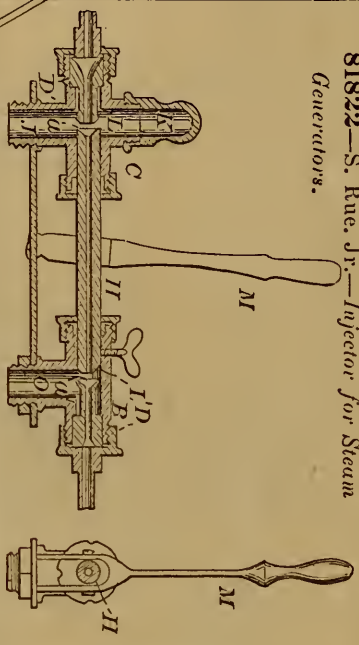
81819—E. O. Rood—*Mechanical Movement.*



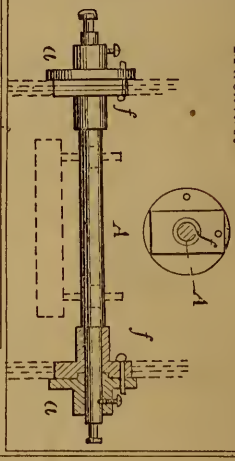
81820—J. Root—*Farm Gate.*



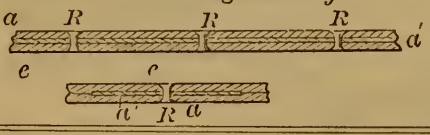
81822—S. Rue, Jr.—*Injector for Steam Generators.*



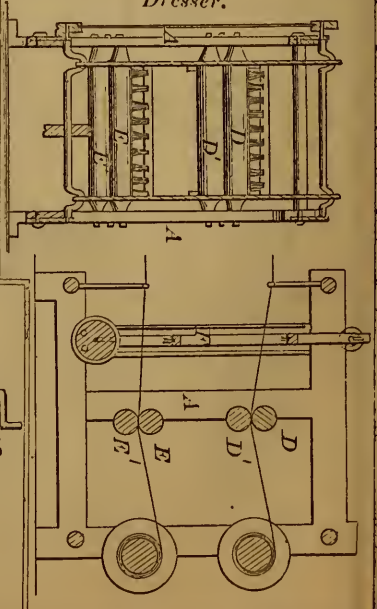
81824—S. Rutschman—*Meat Chopping Machine.*



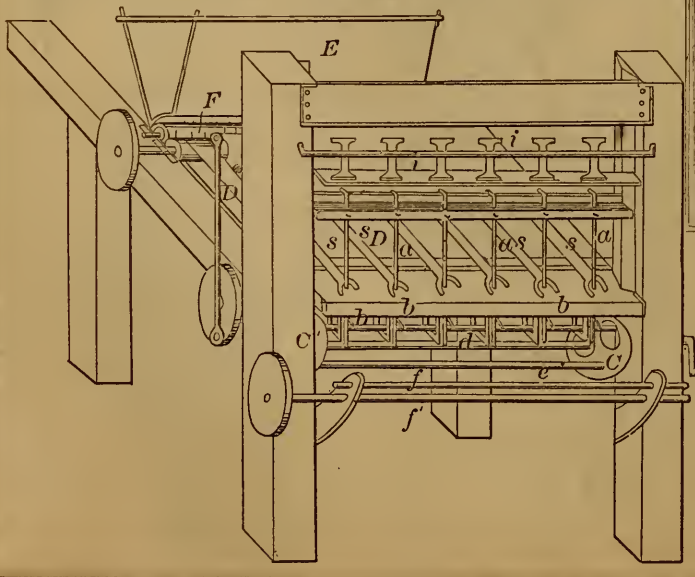
81823—T. Standing—*Belting.*



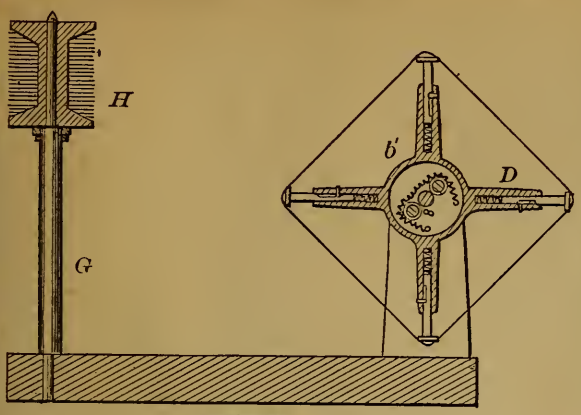
81826—B. Saunders—*Warp Dresser.*



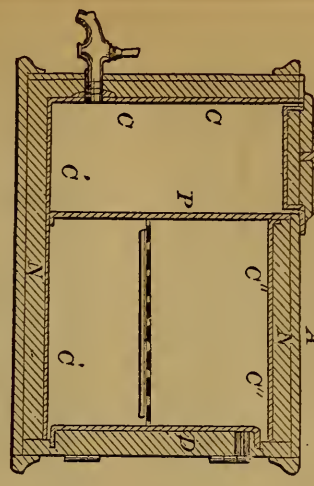
81821—A. S. Rowley—*Sewing Machine.*

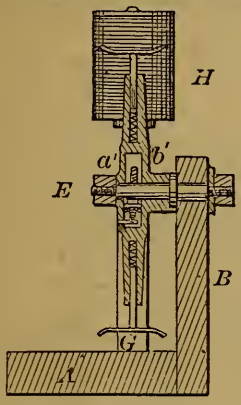


81825—A. H. Saunders—*Reel.*

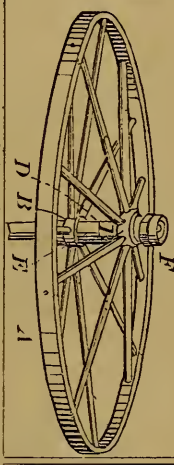


81827—C. C. Savery—*Water Cooler and Refrigerator.*

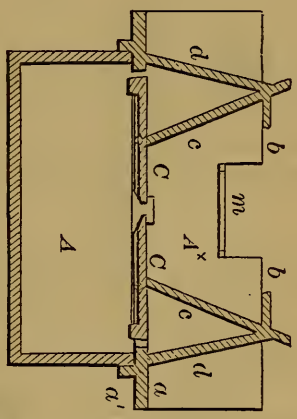




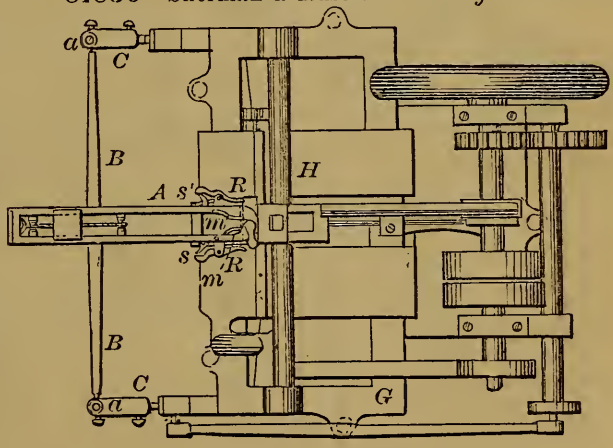
81828—G. W. Seymour—*Carriage Wheel.*



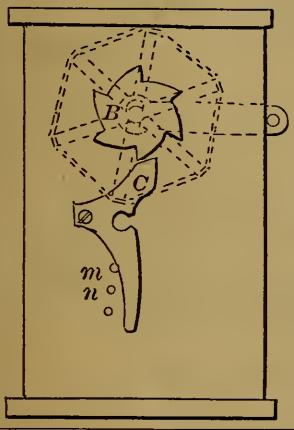
81829—J. Sherman—*Animal Trap.*



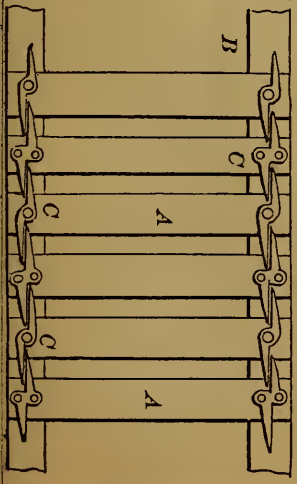
81830—Sherman & Russell—*Feeding Nail Plates.*

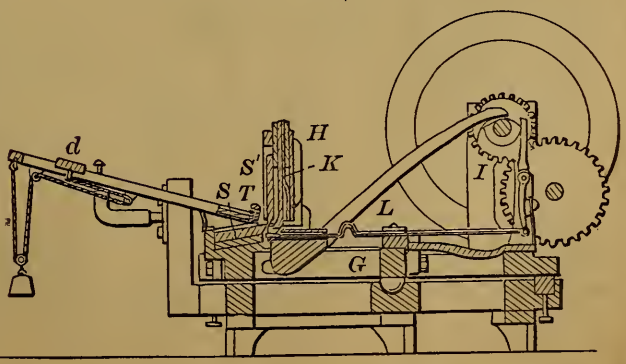


81831—H. N. Schultz—*Flour Bolt.*

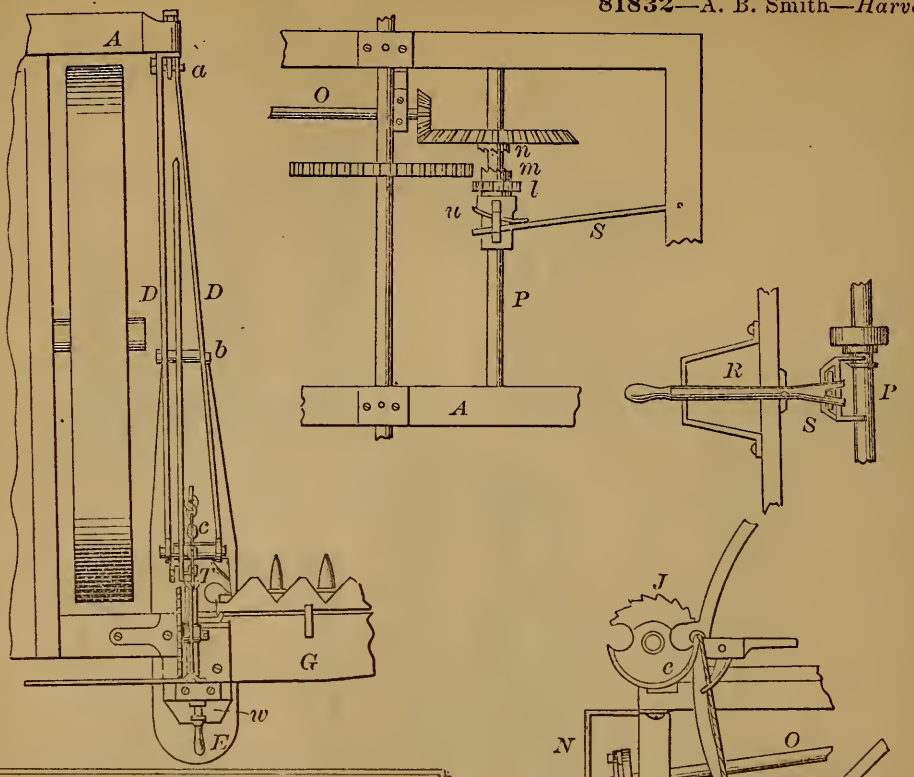


81833—A. B. Smith—*Endless Platform for Churn Power.*

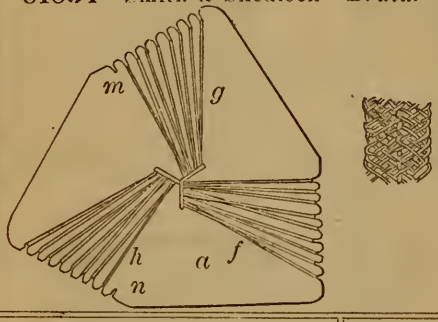




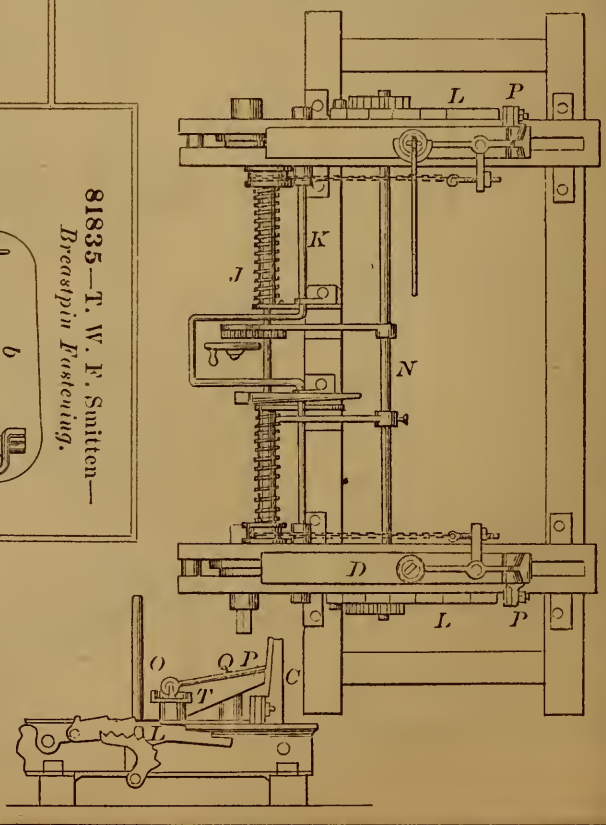
81832—A. B. Smith—*Harvester.*



81834—Smith & Shedlock—*Braid.*

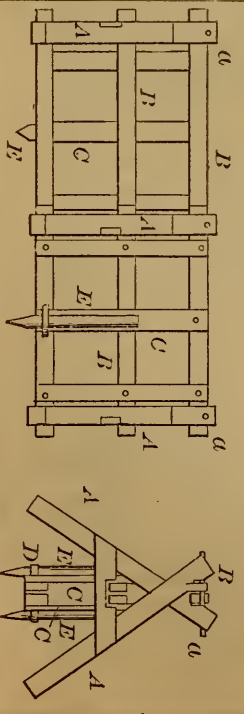


81837—E. H. Stearns—*Head Block.*

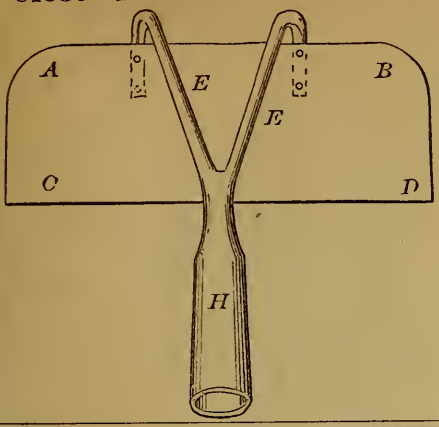


81835—T. W. F. Smitten—*Breastpin Fastening.*

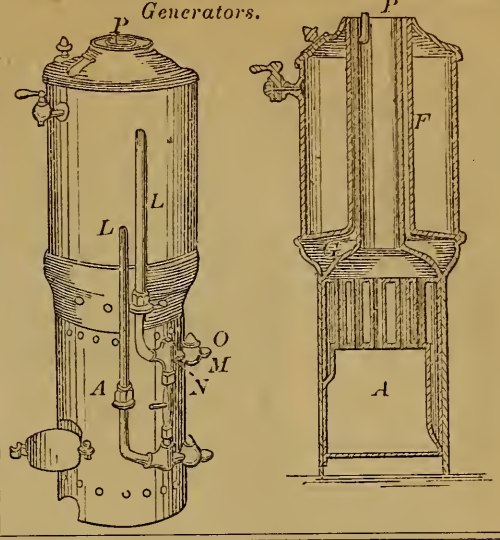
81836—J. Southwick—*Fence.*



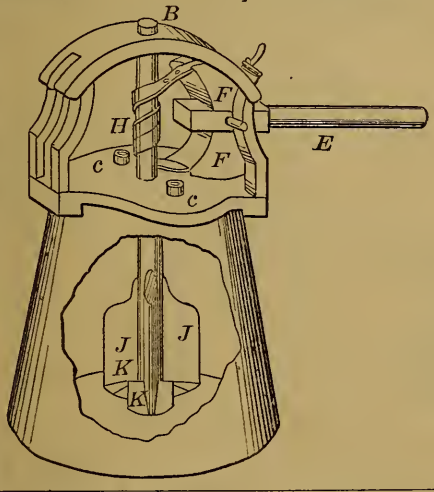
81839—L. Streeter—*Garden Hoe.*



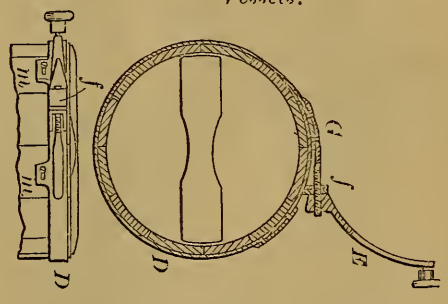
81840—J. W. Sutton—*Heater for Steam Generators.*



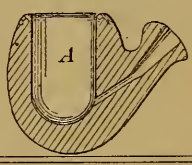
81842—J. W. Thompson—*Churn.*



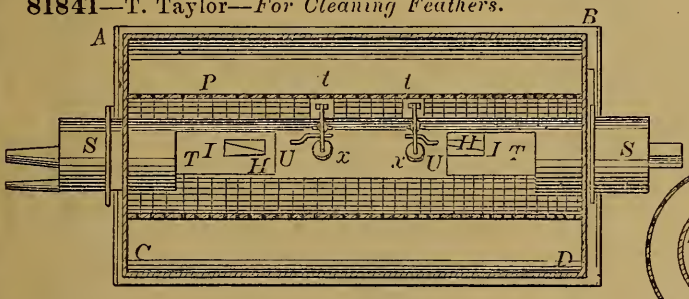
81843—J. Tingley—*Tightening Bands for Vessels.*

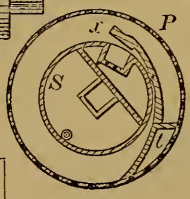


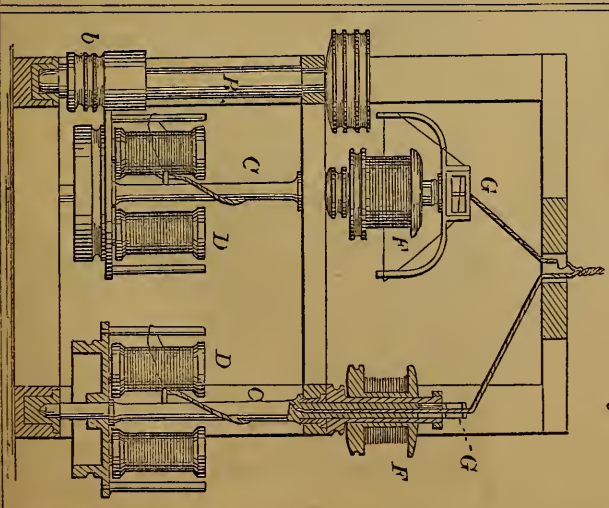
81844—C. Föllner—*Pipe.*



81841—T. Taylor—*For Cleaning Feathers.*

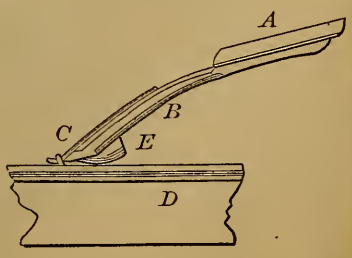




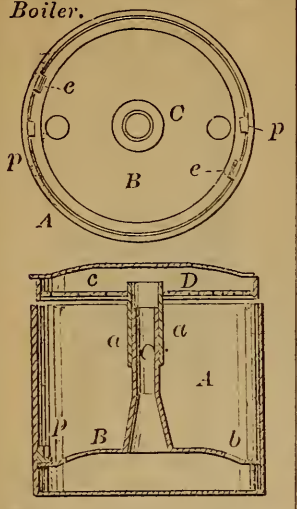


81845—J. Turner—*For Covering Cord.*

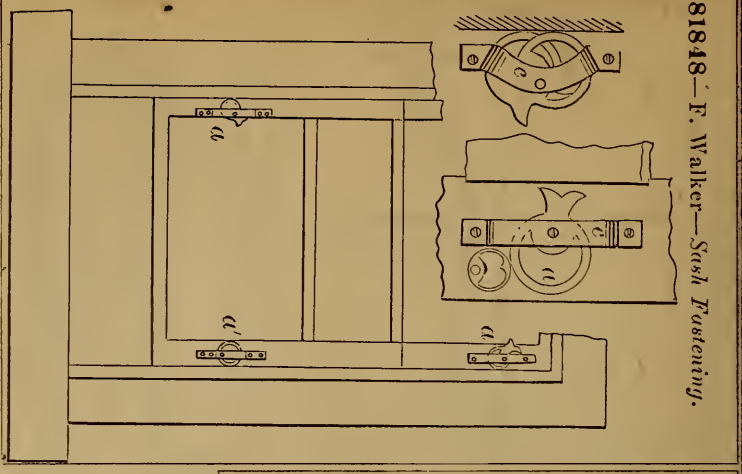
81846—O. Vanorman—*Vehicle Seat.*



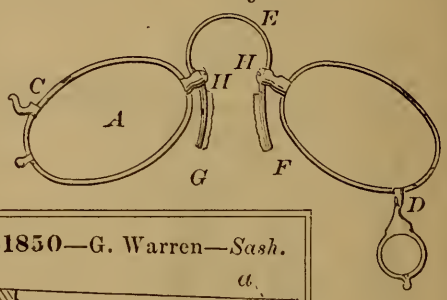
81847—J. Varley—*Wash Boiler.*



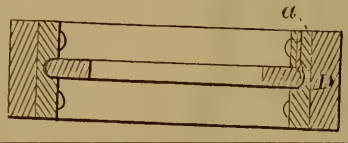
81848—F. Walker—*Sash Fastening.*



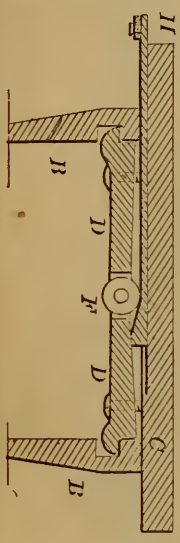
81849—E. Want—*Eye Glass.*



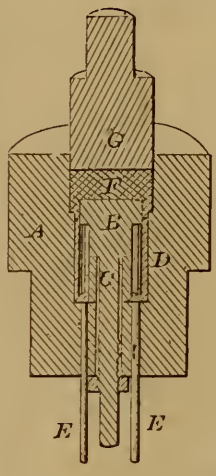
81850—G. Warren—*Sash.*



81851—A. Whitcomb—*Planing Machine.*

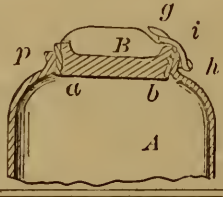


81852—W. Weeks—*Die.*

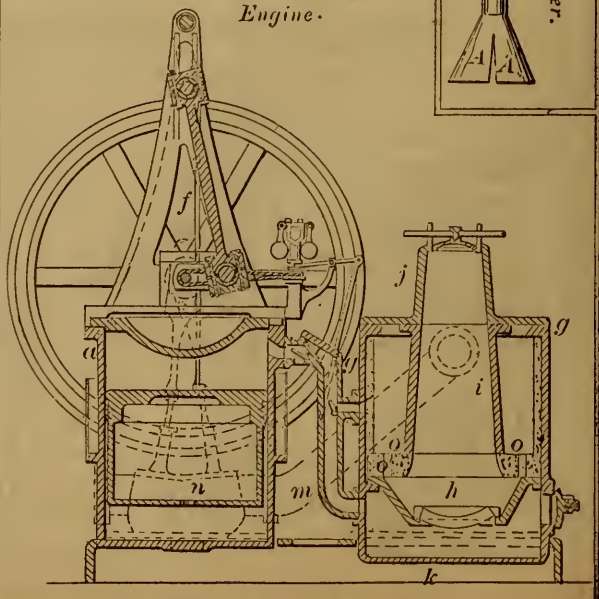


81855—J. Willard—*Bar Opener.*

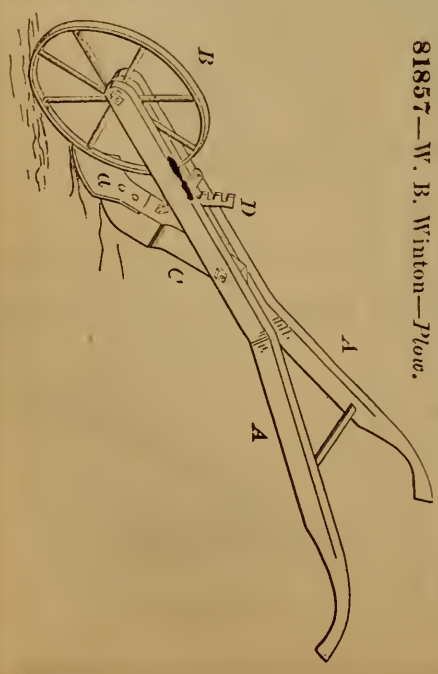
81856—E. R. Williams—*Fruit Jar.*



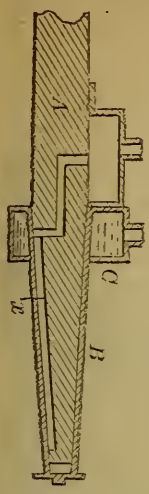
81853—F. Herbert—*Hot Air Engine.*



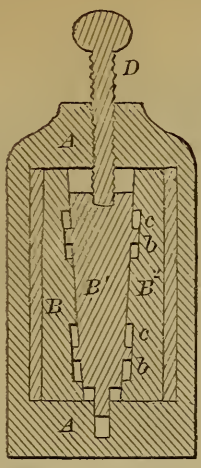
81857—W. B. Winton—*Plow.*



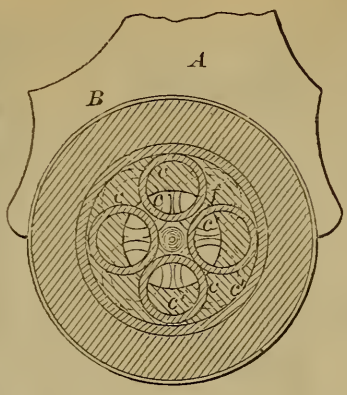
81858—J. Worden—*Axle Lubricator.*



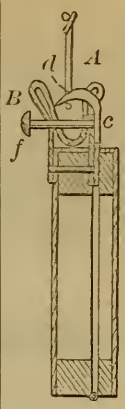
81859—E. E. Wright—*Cutter Head.*



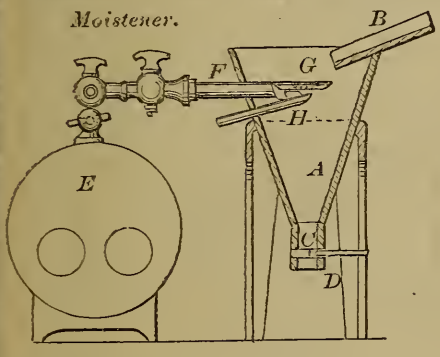
81860—J. A. Burnap—*Pulley.*



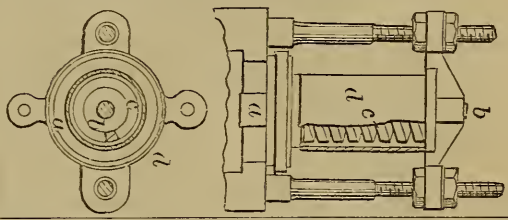
81862—A. Armemann—*Pocket Attachment.*



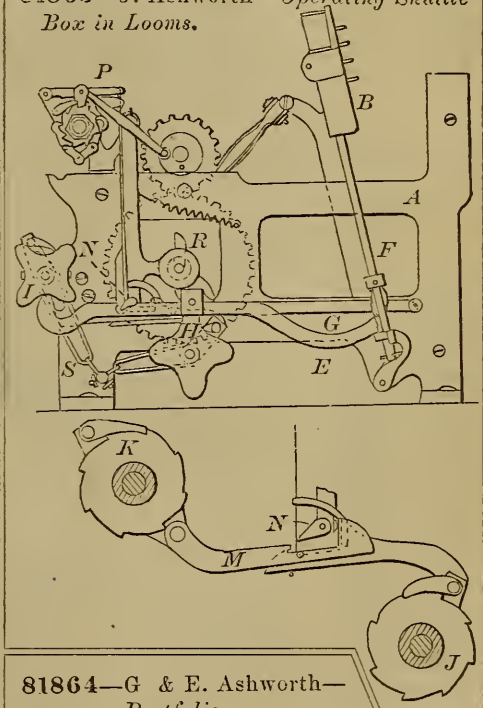
81861—Adams & Esale—*Grain Moistener.*



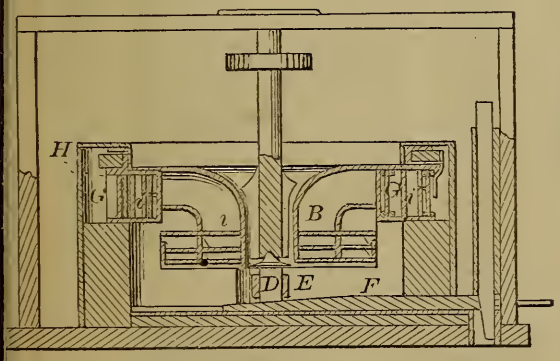
81863—E. H. Ashcroft—*Safety Valve.*

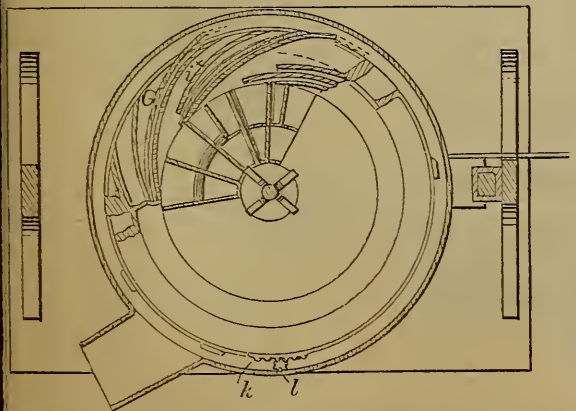


81865—J. Ashworth—*Operating Shuttle Box in Looms.*

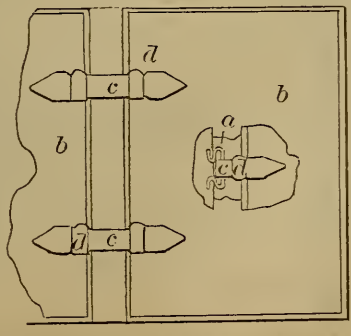


81866—V. M. Baker—*Water Wheel.*

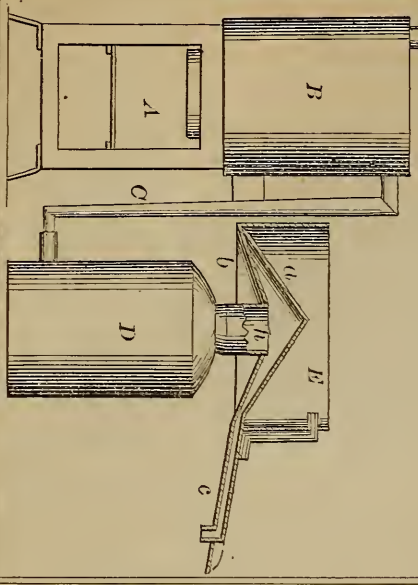




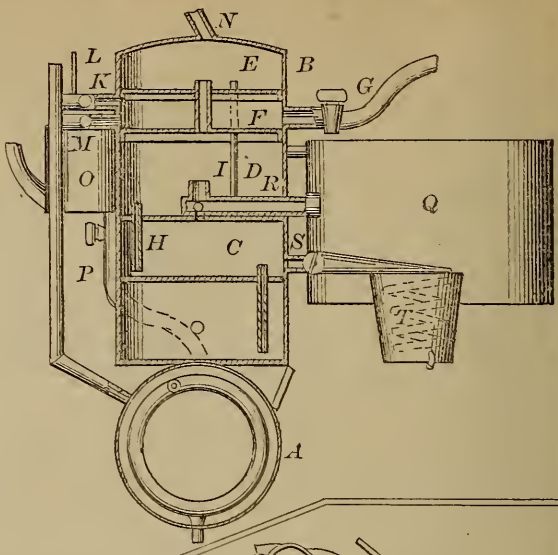
81864—G & E. Ashworth—*Portfolio.*



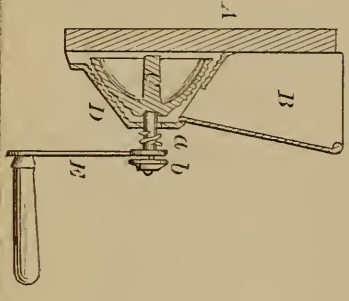
81867—G. O. Baldwin—*Still.*



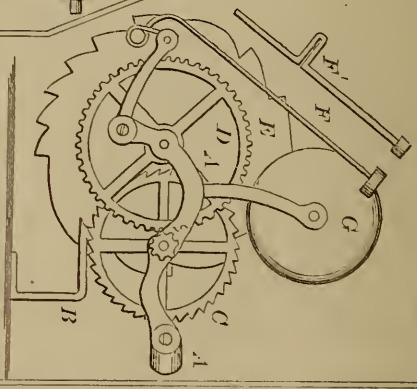
81868—W. G. Barette—*For Rectifying Spirits.*



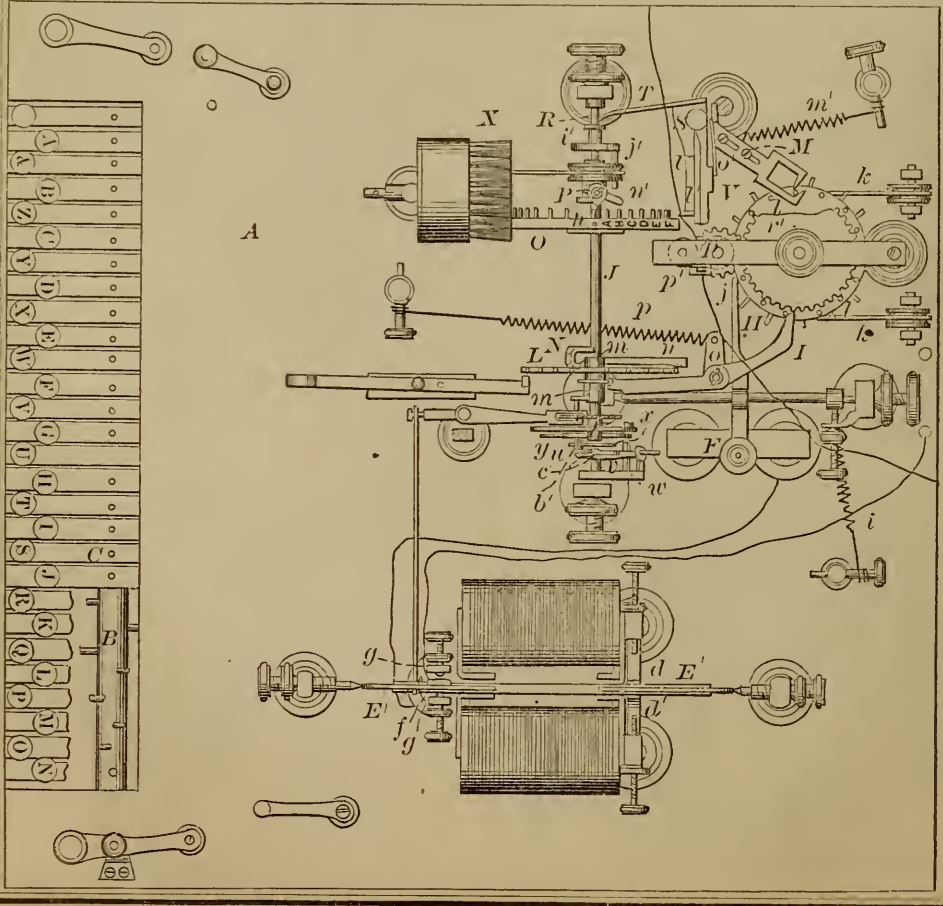
81869—W. H. Barns—*Coffee Mill.*



81870—B. B. Bollinger—*Knitting Machine Register.*

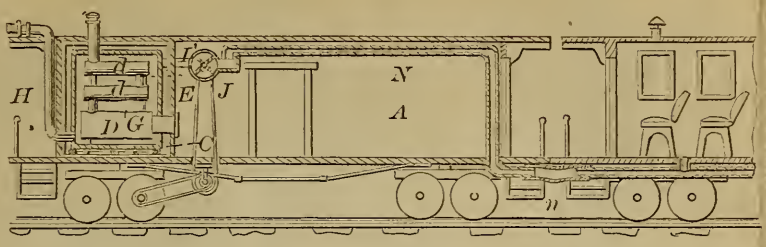


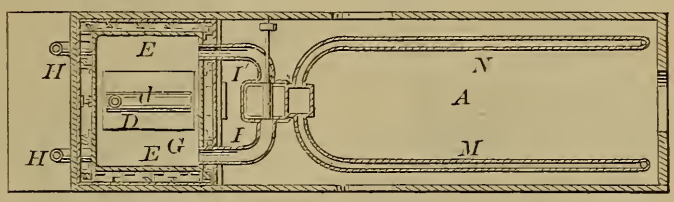
81871—R. K. Boyle—*Printing Telegraph Instrument.*



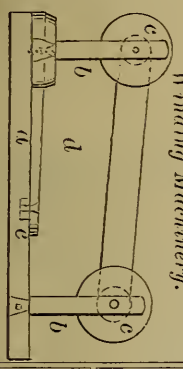
81872—C. W. Brewer—*Piano Hammer.*

81873—H. M. Britton—*Car Heater.*

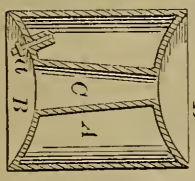




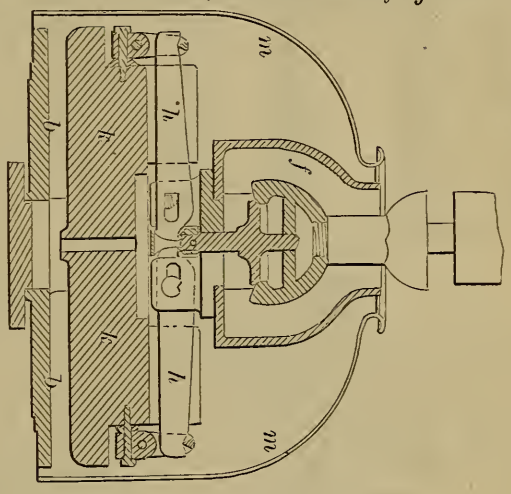
81874—H. L. Brown—*Silk Winding Machinery.*



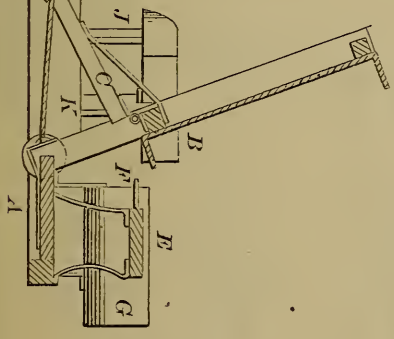
81877—W. F. Chrisman—*Pessary.*

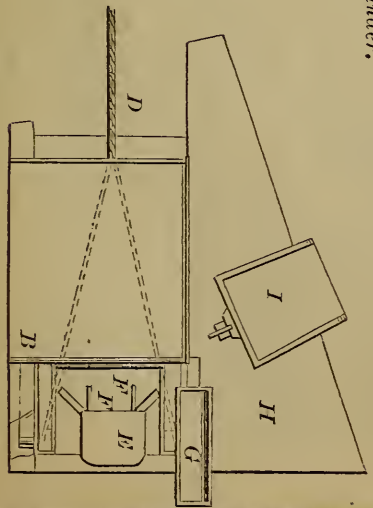


81878—G. H. & E. Clemns—*Safety Valve.*

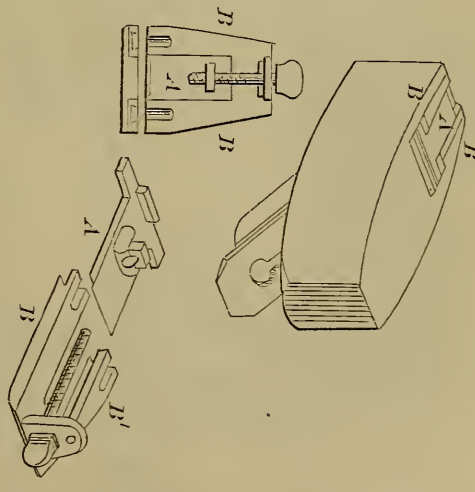


81875—J. K. Bull—*Grain Binder.*

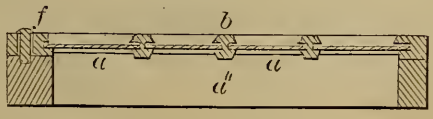




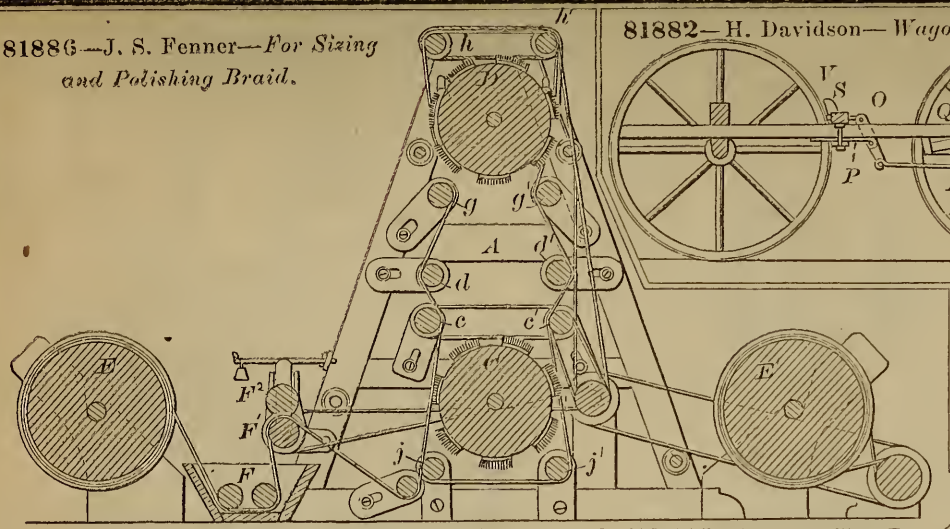
81879—A. H. Coup—*Plane.*



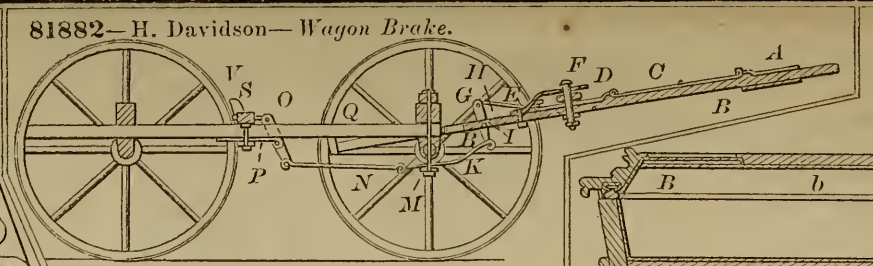
81881—M. Cridge—*Hot Bed Sash and Frame.*



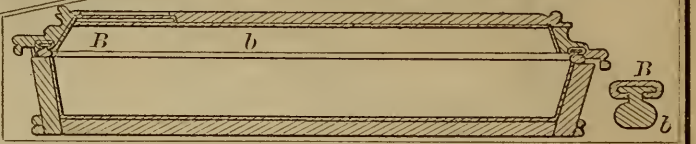
81886—J. S. Fenner—*For Sizing and Polishing Braid.*



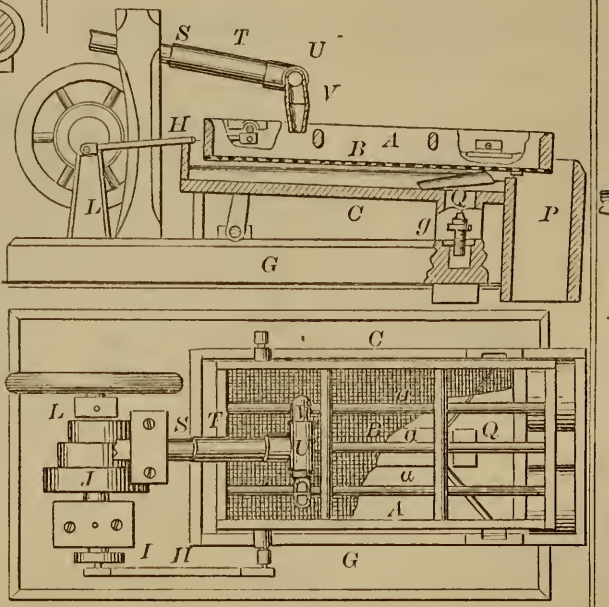
81882—H. Davidson—*Wagon Brake.*

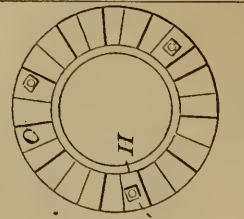


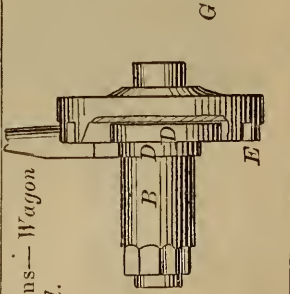
81885—E. Ellingen—*Coffin.*



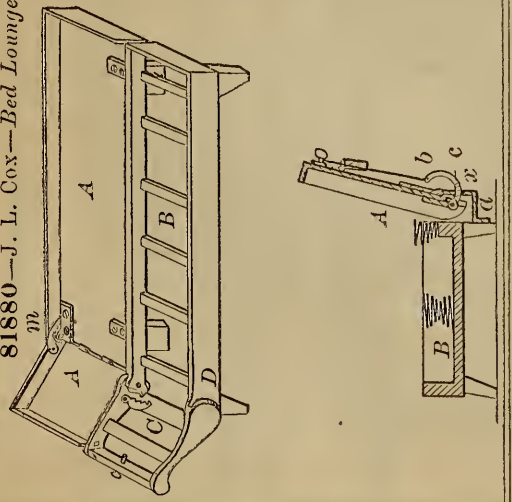
81888—C. Gilbert—*Starch Separator.*



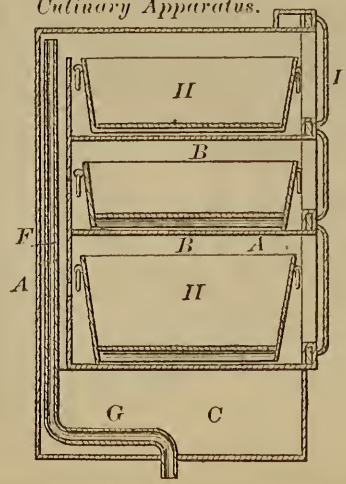




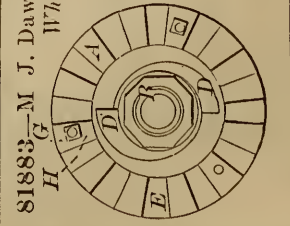
81880—J. L. Cox—*Bed Lounge.*



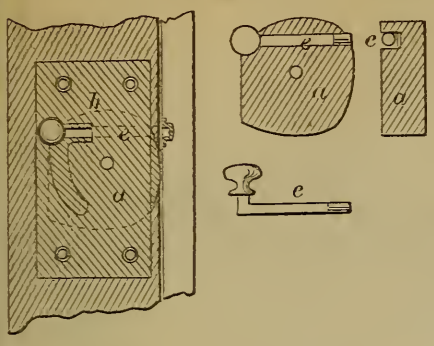
81887—J. S. Field—*Culinary Apparatus.*



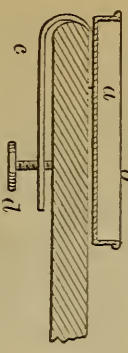
81883—M. J. Dawkins—*Wagon Wheel.*



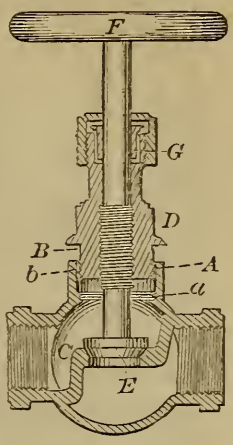
81889—L. D. Gould—*Sash Fastener.*



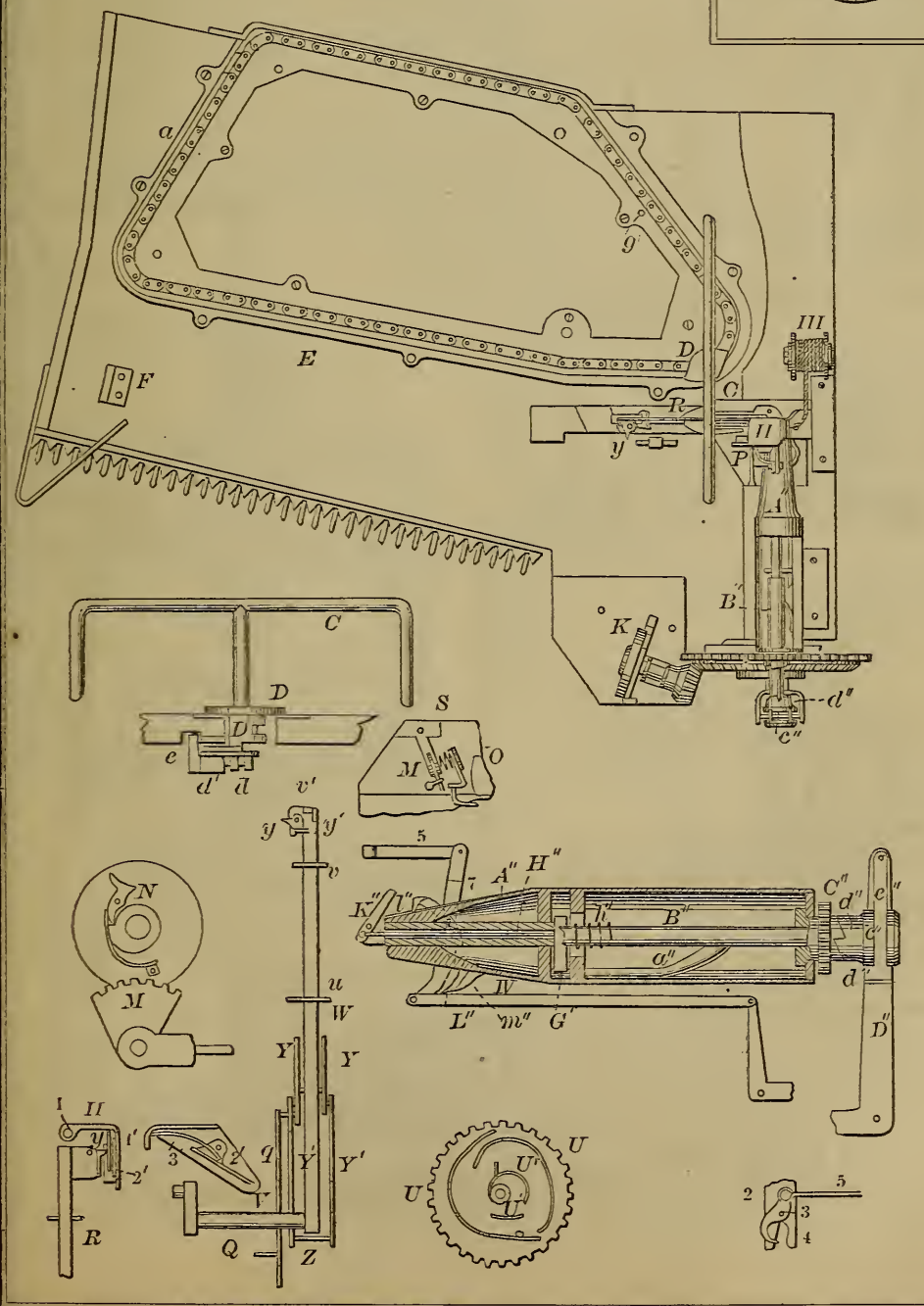
81890—Gould & Harris—*Anti-Slipping Plate.*



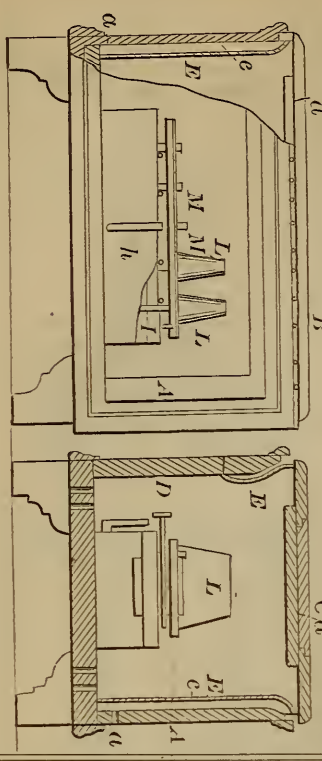
81893—G. D. Hadley—*Globe Valve.*



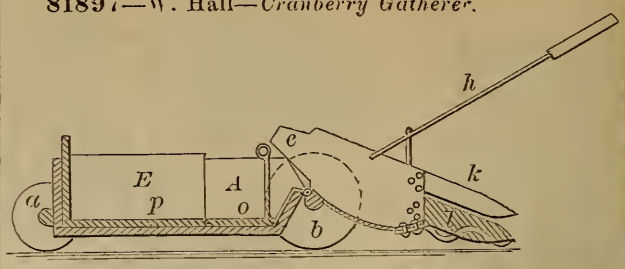
81891—J. B. Greenhut—*Grain Binder.*



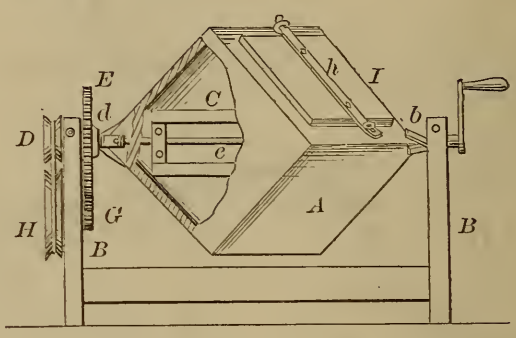
81892—J. T. Greenwood—*Gas Heater.*



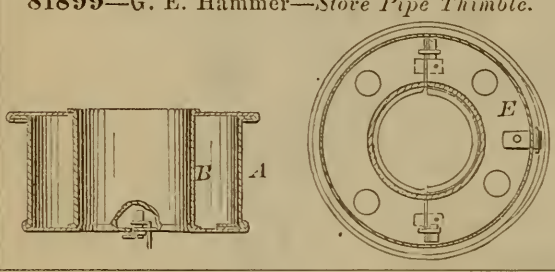
81897—W. Hall—*Cranberry Gatherer.*



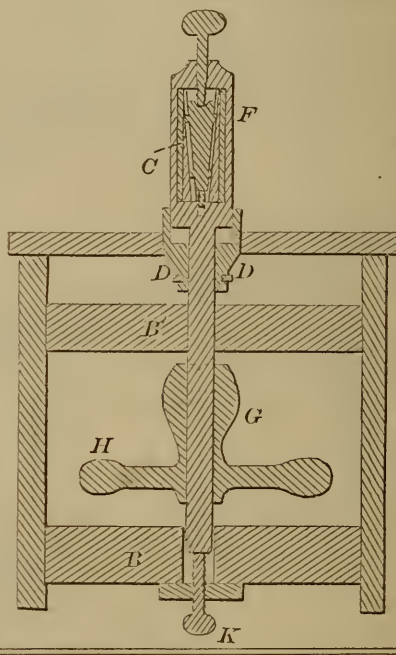
81896—T. Haigh—*Churn.*



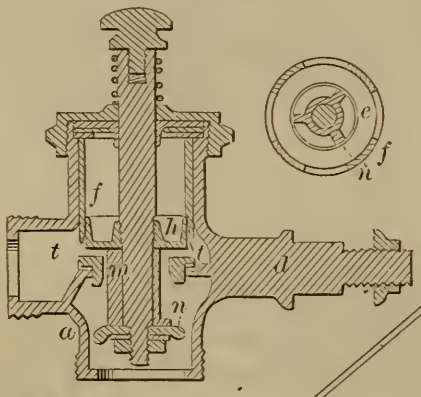
81899—G. E. Hammer—*Stove Pipe Thimble.*



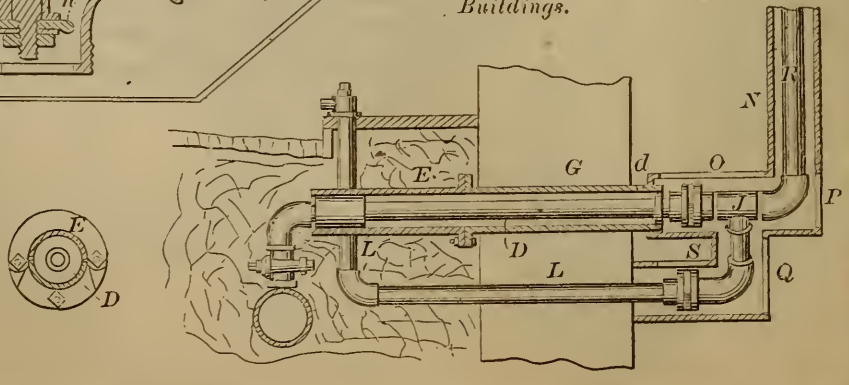
81898—S. M. Hamilton—*Planing Machine.*



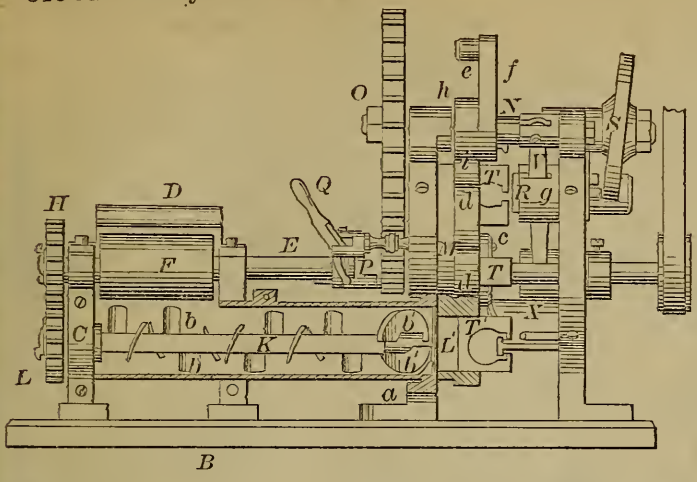
81900—C. Harrison—*Faucet.*

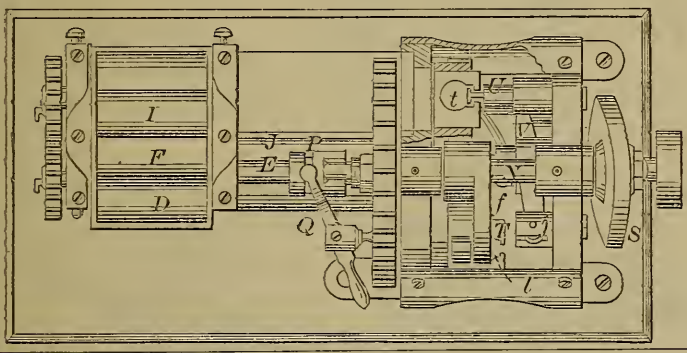


81895—E. Hagan—*Service Pipe for Buildings.*

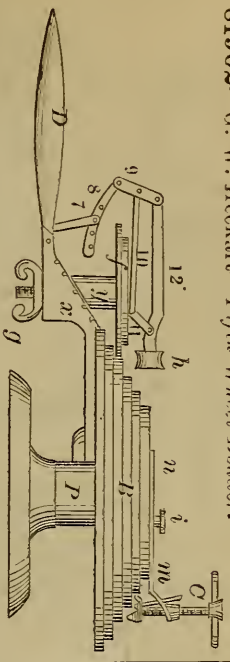


81901—P. Hayden—*Brick Machine.*

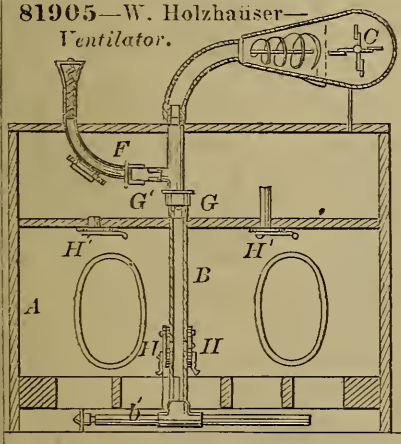


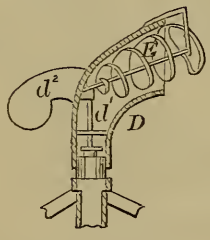


81902—G. W. Heckart—*Fifth Wheel Bender.*

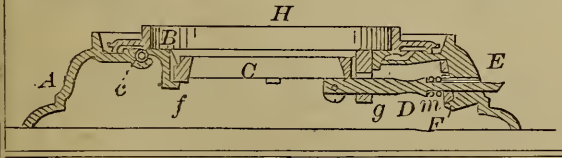


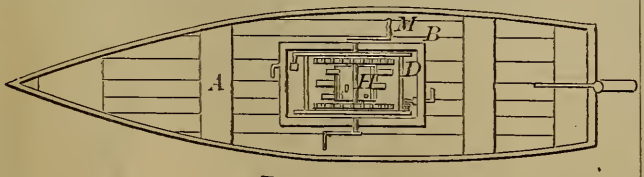
81905—W. Holzhauser—*Ventilator.*

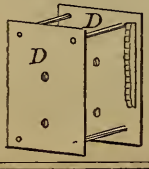




81904—Holbrook & Rumrill—*Stove Grate.*

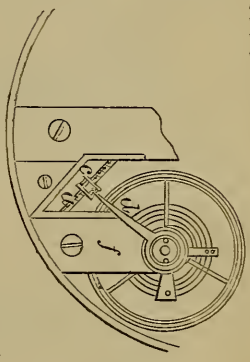




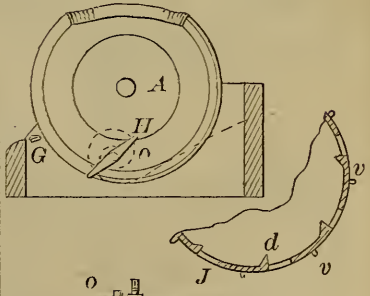


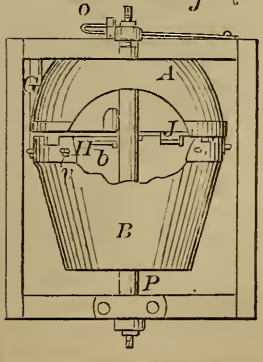
81909—T. B. Kelley—*Ice Boat.*

81907—F. G. Johnson—*Watch.*

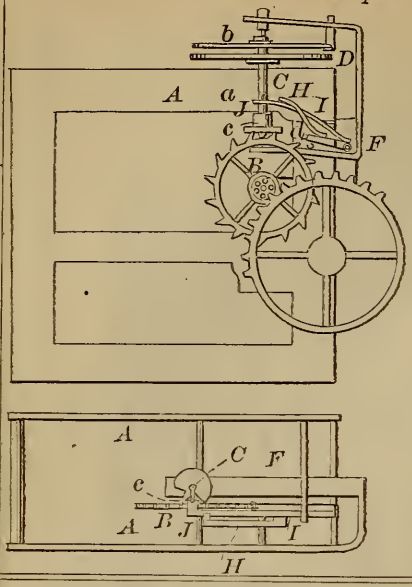


81906—G. Jessup—*Cotton Seed Planter.*

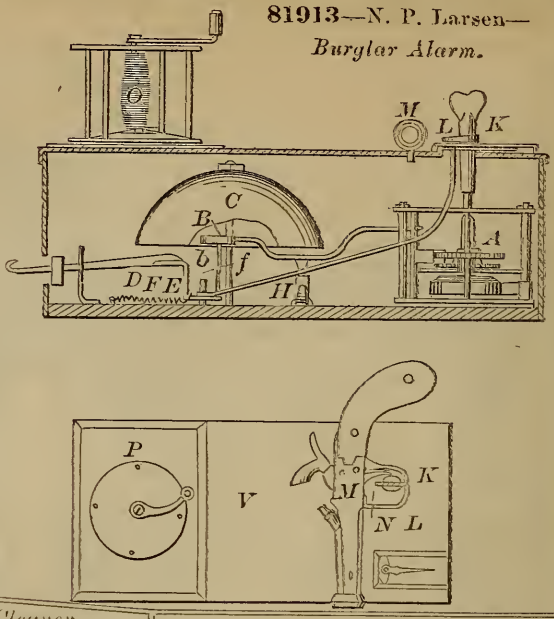




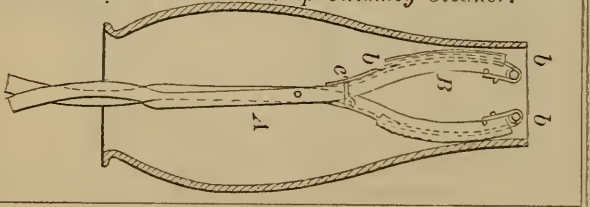
81910—W. C. Kellum—*Escapement.*



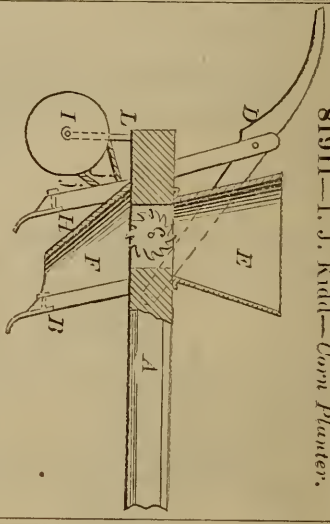
81913—N. P. Larsen—*Burglar Alarm.*



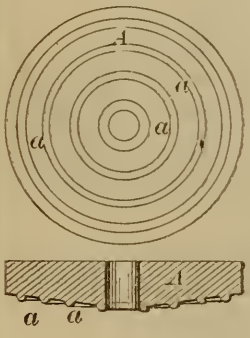
81917—M. N. Lovell—*Lamp Chimney Cleaner.*

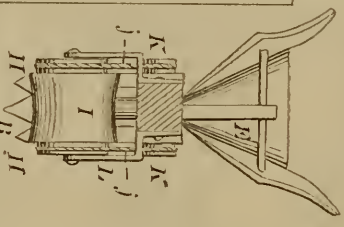


81911—I. J. Kidd—*Corn Planter.*

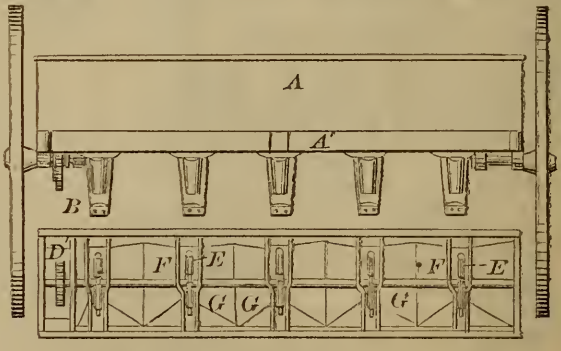


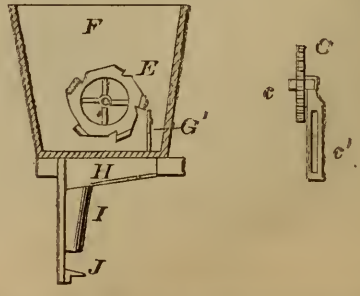
81912—J. Kuhn—*Face Tester.*



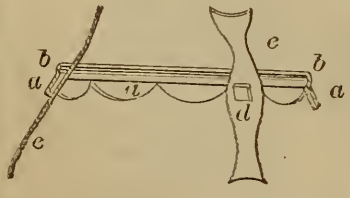


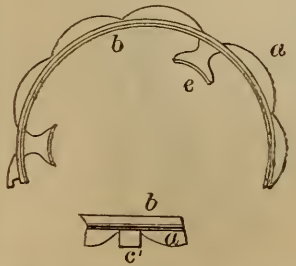
81914—J. L. Linderman—*Seeding Machine.*



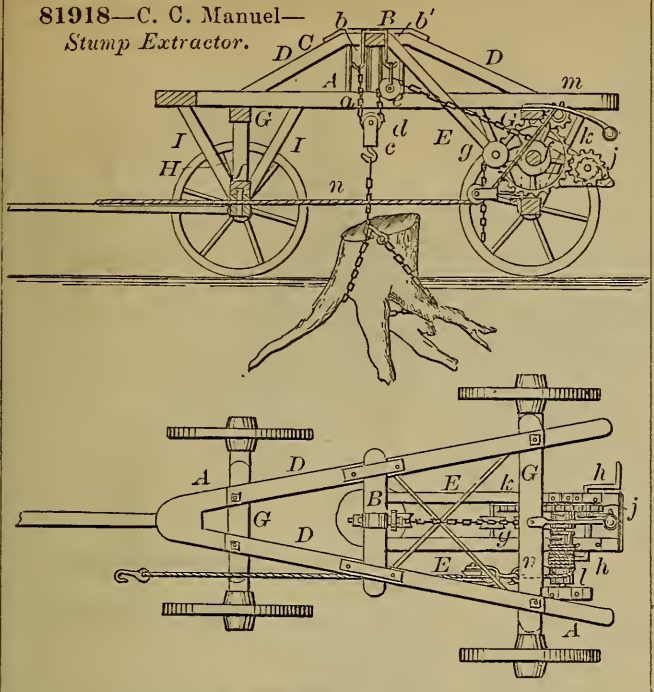


81915—Locke & Weeden—*Lamp Shade.*

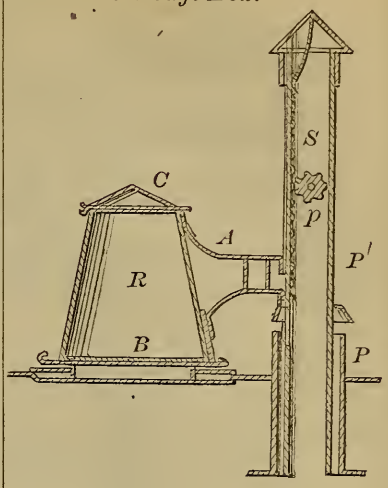




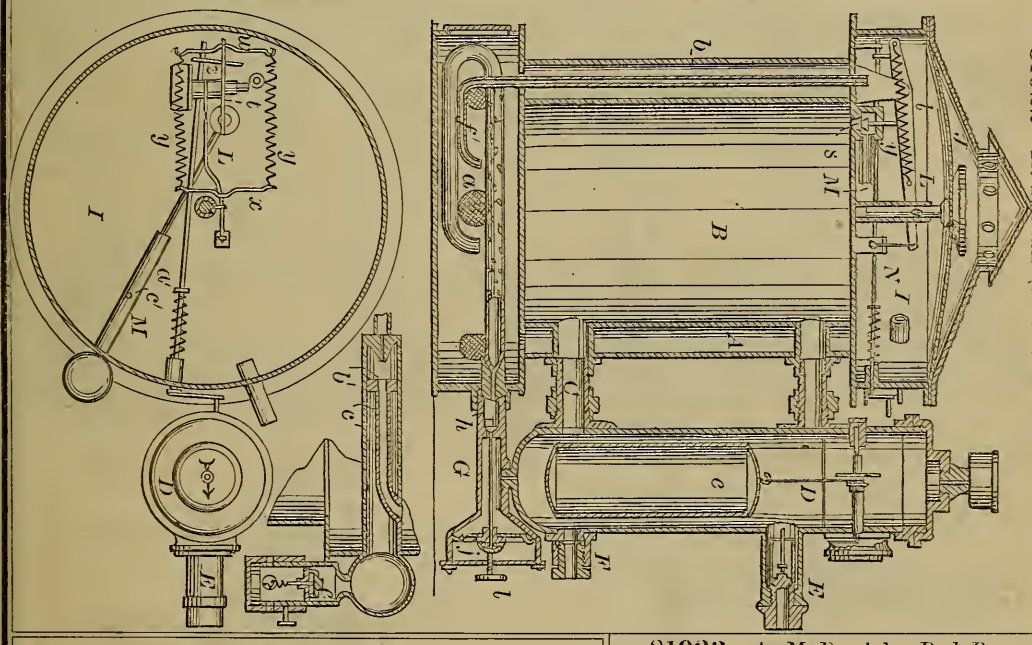
81918—C. C. Manuel—*Stump Extractor.*



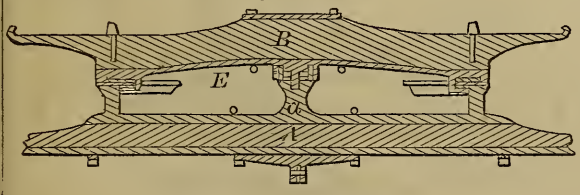
81919—J. L. Mason—*Garbage Box.*



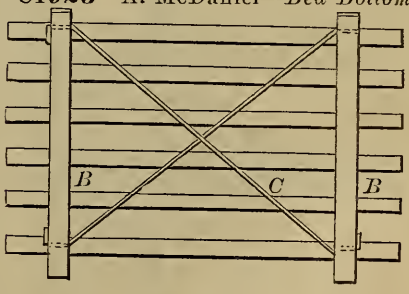
81922—H. S. Maxim—*Gas Machine.*



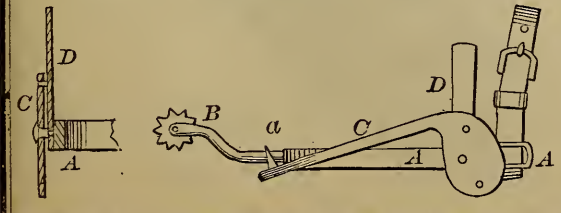
81924—H. McIlroy—*Axle.*

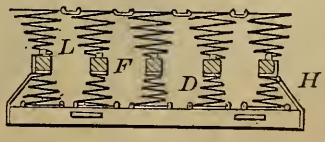


81923—A. McDaniel—*Bed Bottom.*

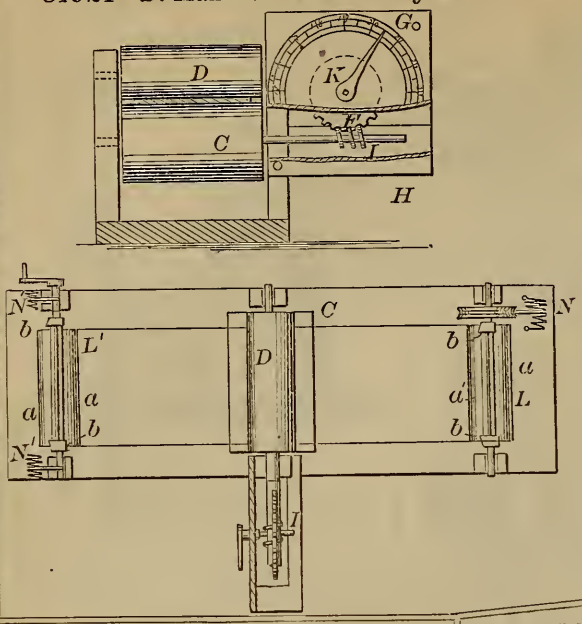


81925—F. Mehrmann—*Spur and Creeper.*



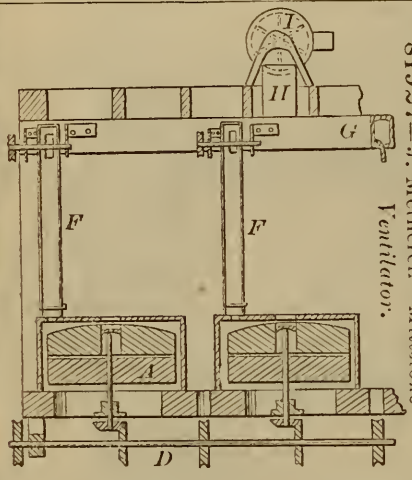


81921—D. Max—*Cloth Measuring Machine.*

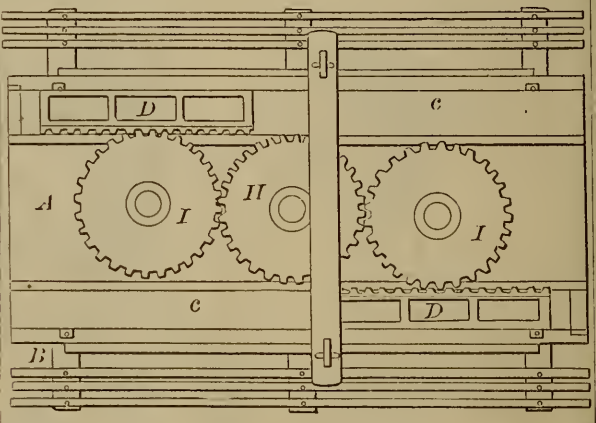


81926—E. J. Merriman—*Corset.*

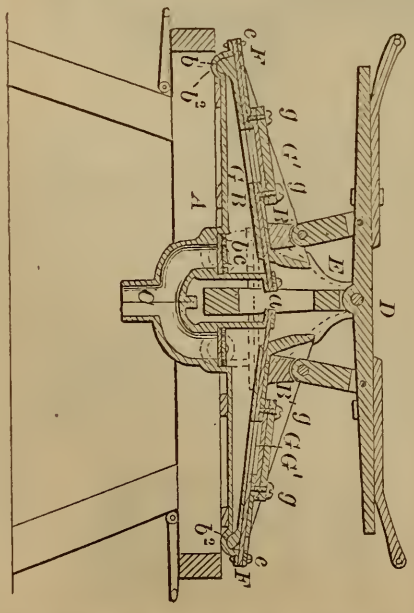
81927—J. Metherell—*Millstone Ventilator.*

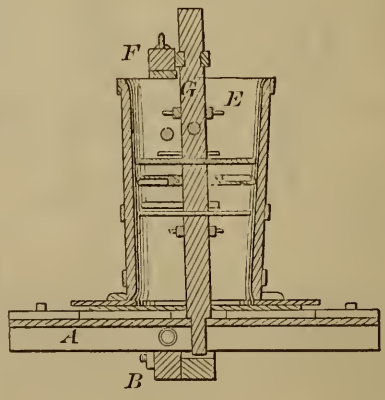


81928—J. C. Miller—*Brick Machine.*

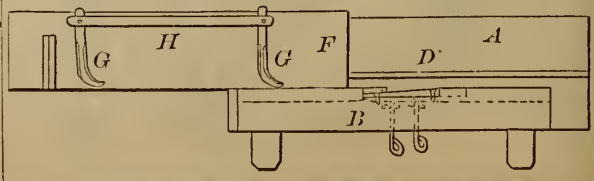


81930—S. Motte—*Pumping Apparatus.*

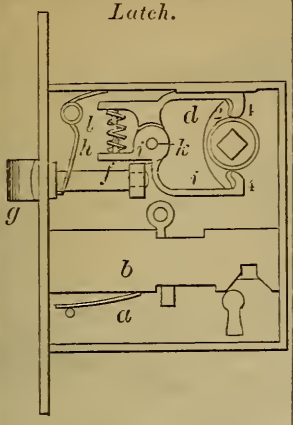




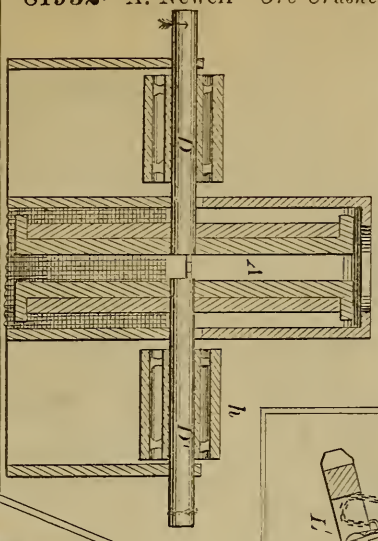
81929—J. H. Miller—*Plane for Cutting Blind Slats.*



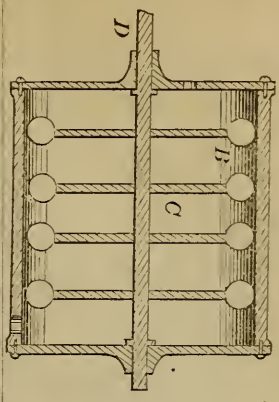
81931—W. T. Munger—*Latch.*



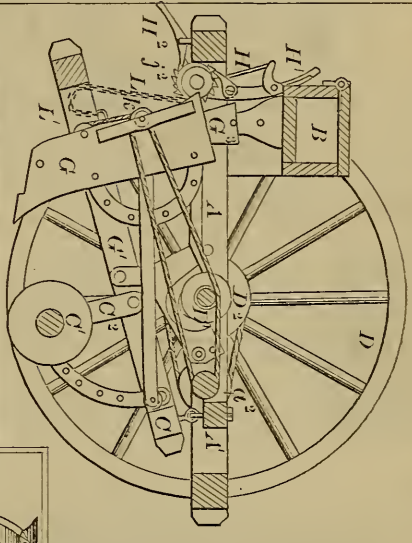
81932—A. Newell—*Ore Crusher.*



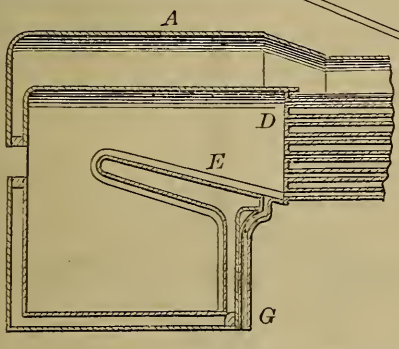
81933—A. Newell—*Pulverizing Bone.*



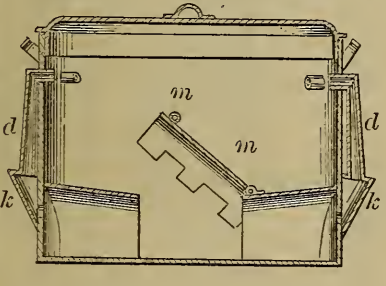
81935—L. M. Older—*Seeding Machine.*

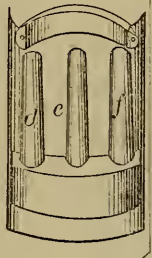


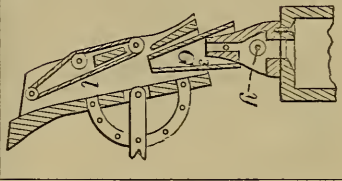
81937—Q. Parker—*Steam Generator.*



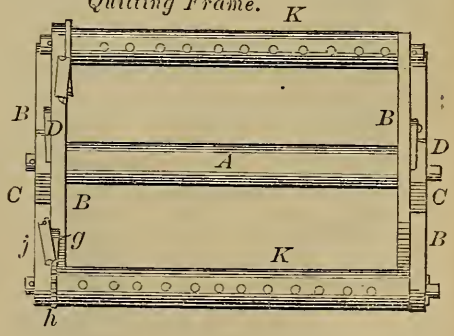
81934—J. Okey—*Wash Boiler.*

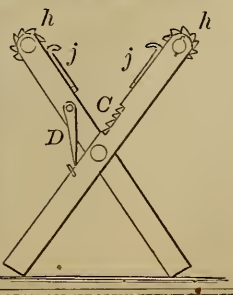




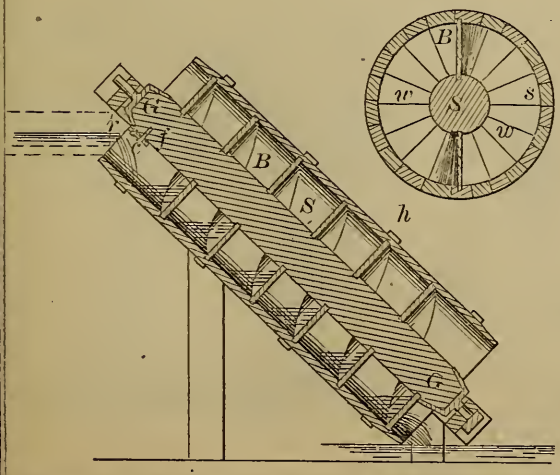


81936—J. Park—*Bedstead and Quilting Frame.*

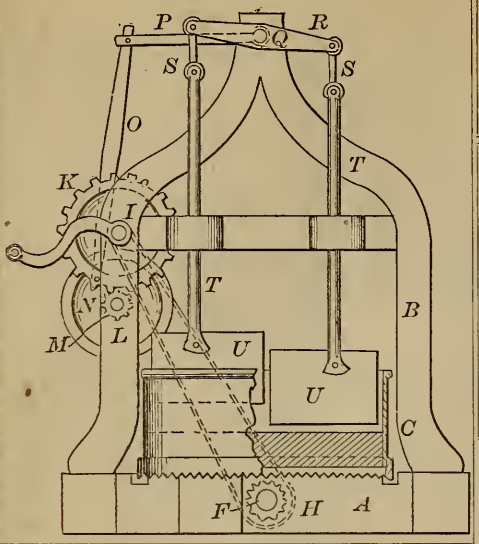




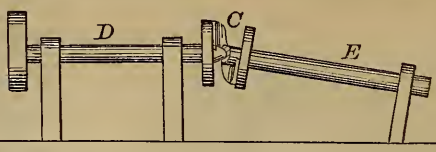
81938—L. Patric—*Shaft Journal.*



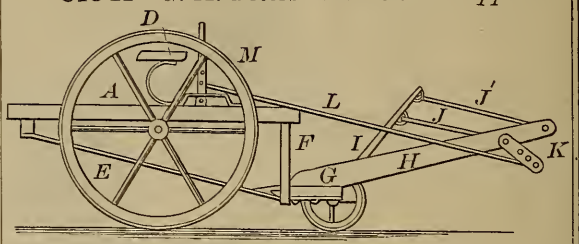
81939—T. Payne—*Meat Chopper.*



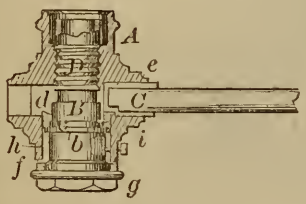
81940—P. Peffer—*Shaft Coupling.*



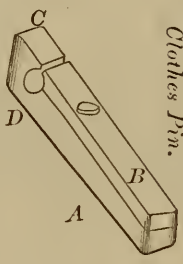
81941—G. M. Peters—*Harvester Dropper.*



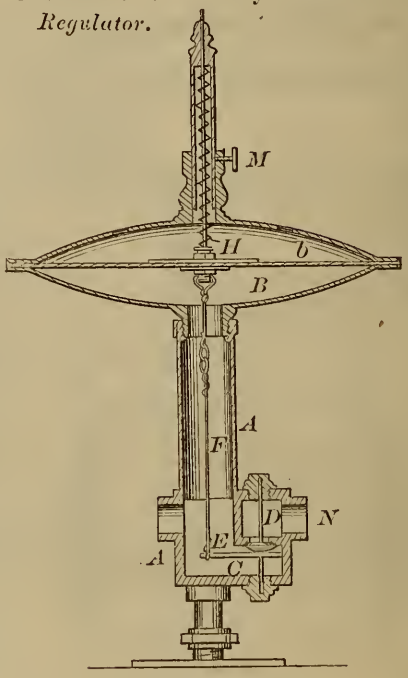
81943—H. Poth—*Wheel.*



81945—J. A. Rand—*Clothes Pin.*

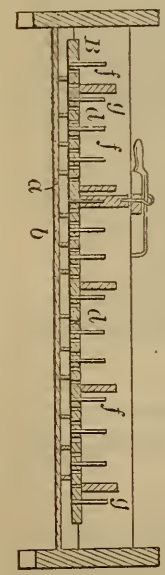


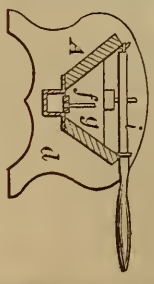
81944—C. C. Ramsay—*Gas Pressure Regulator.*



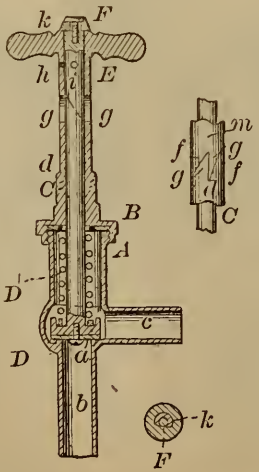
81947—C. F. Ritchel—*Chalk Holder for Billiard Tables.*

81942—D. G. Pickett—*Seed Sower.*

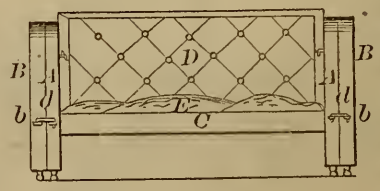


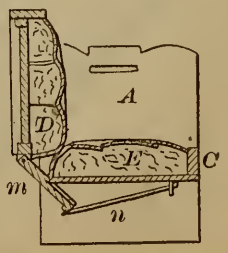


81948—F. Roach—*Faucet.*

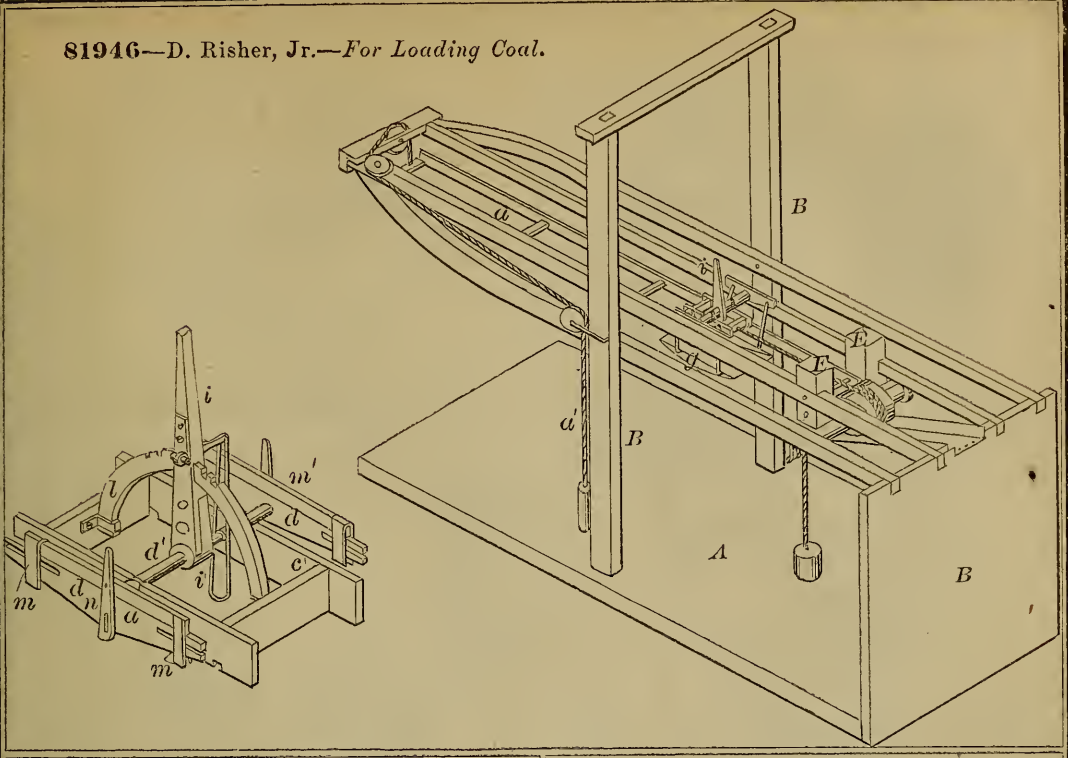


81949—S. R Roscoe—*Bedstead.*

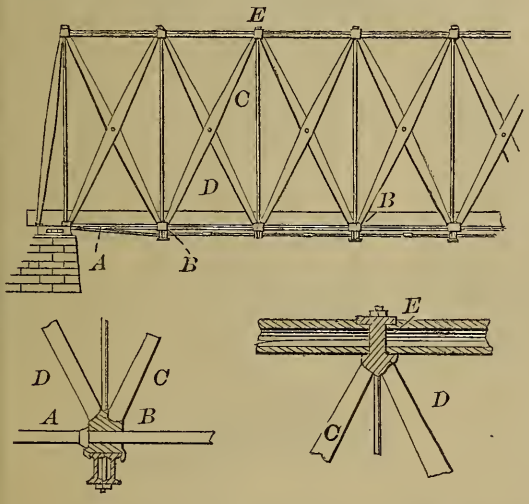




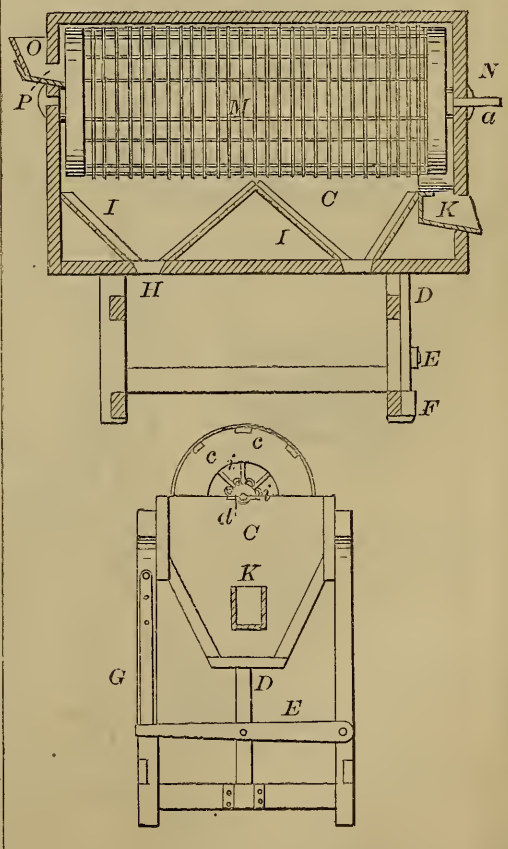
81946—D. Risher, Jr.—*For Loading Coal.*



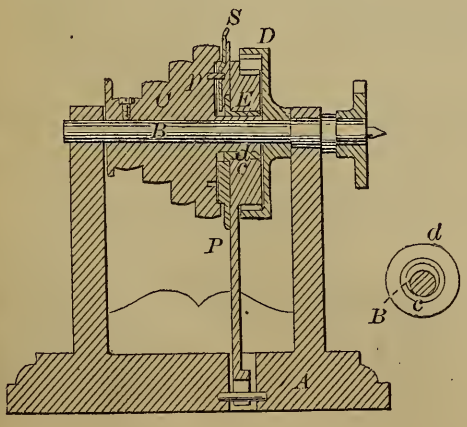
81950—Rust & Herrimann—*Bridge.*



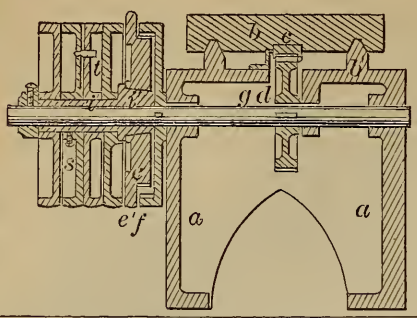
81951—Shannon & Spencer—*Grain Separator.*



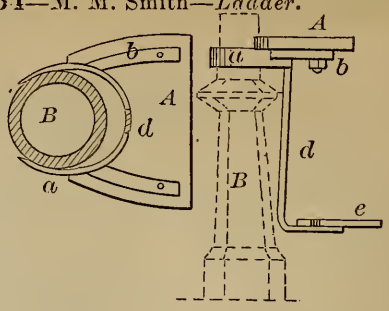
81952—H. F. Shaw—*Lathe Head.*



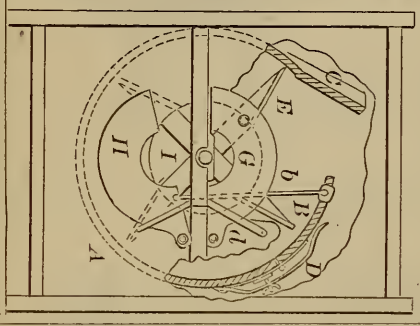
81953—H. F. Shaw—*For Operating the Beds of Planing Machines.*



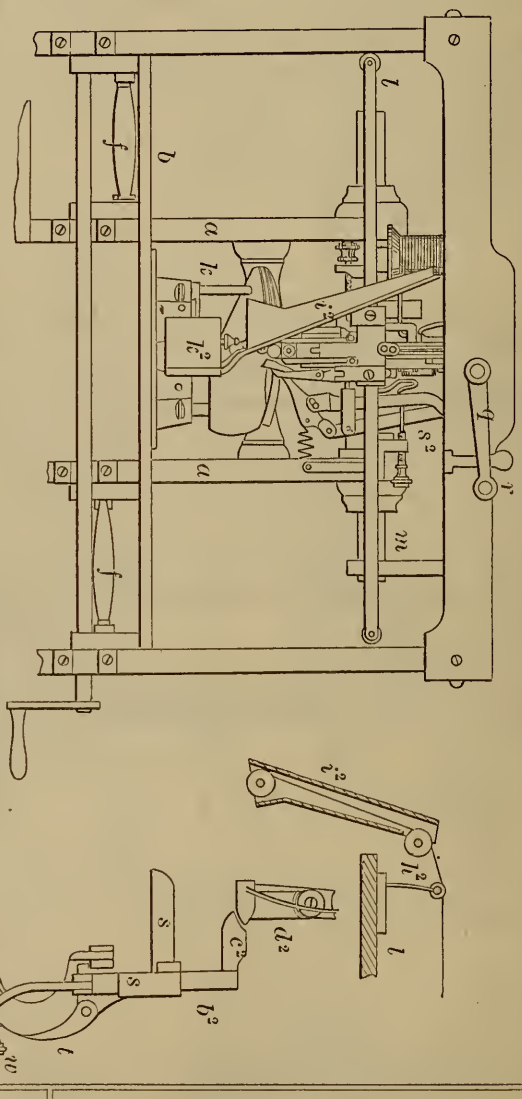
81954—M. M. Smith—*Ladder.*



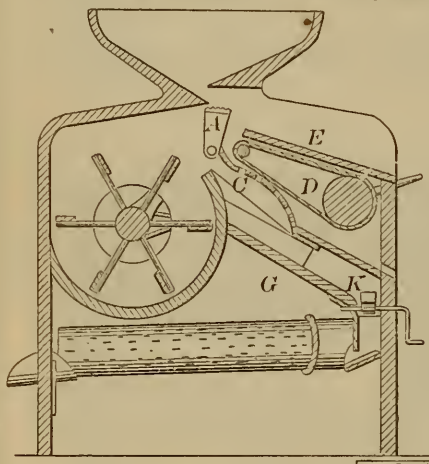
81955—H. A. Snyder—*Fanning Mill.*

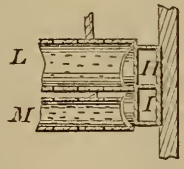


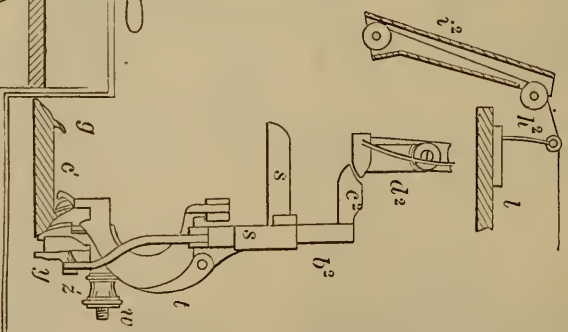
81956—M. J. Stein—*For Sewing Uppers to Boot and Shoe Soles.*



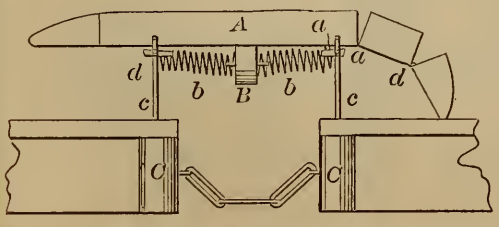
81957—W. Stoddard—*Fanning Mill.*



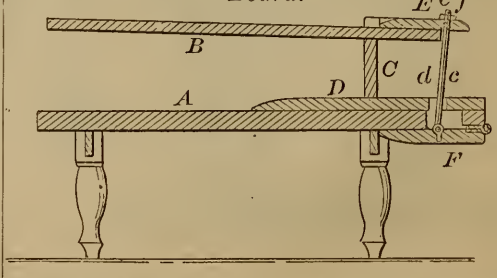




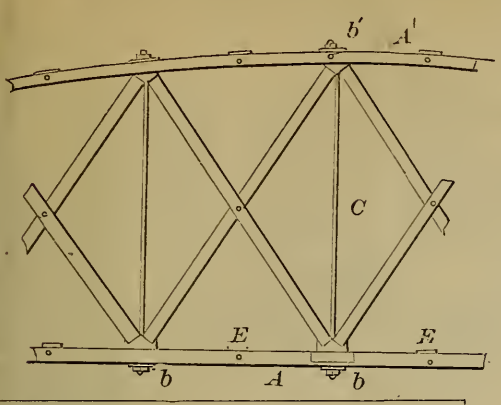
81958—E. Sturgeon—*Bridge.*

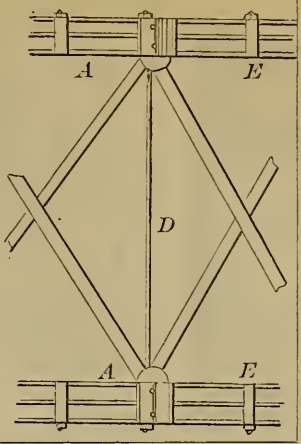


81959—Thompson & Burbank—*Press Board.*



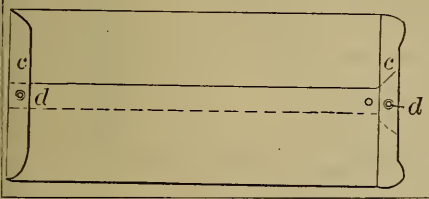
81960—J. K. Thompson—*Bridge.*



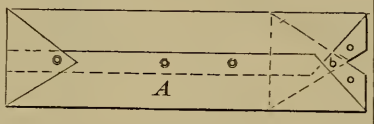


81961—A. C. Tichenor—*Car Coupling.*

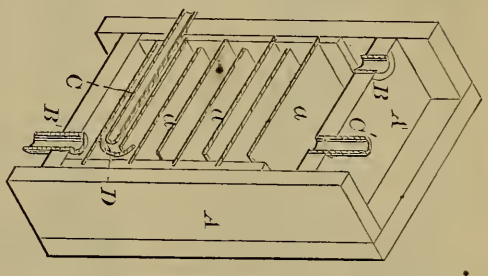
81962—S. Ullman—*Envelope.*



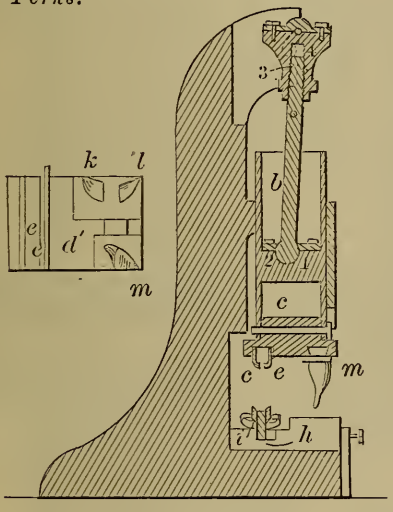
81963—S. Ullman—*Envelope.*

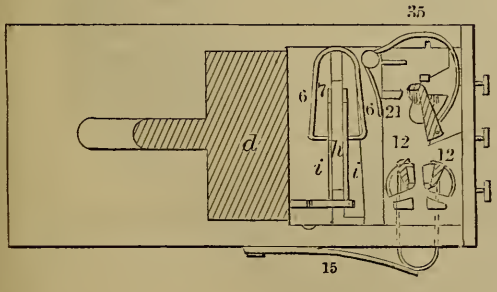


81964—A. Van Orsdale—*Steam Condenser.*

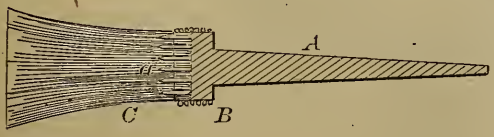


81965—Whipple & Denio—*Making Forks.*





81966—J. L. Whiting—*Brush.*



81967—J. S. Williams—*Double Ratchet Lever Power.*

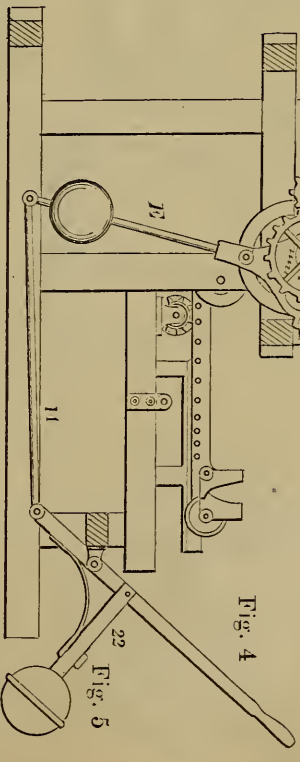
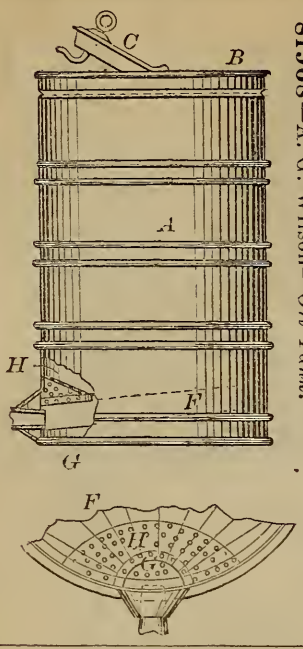


Fig. 4

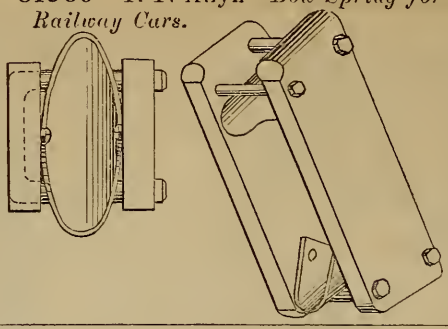
Fig. 5

Fig. 6

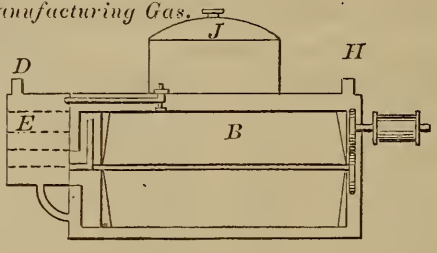
81968—A. G. Wilson—*Oil Tank.*



81969—T. F. Allyn—*Bow Spring for Railway Cars.*

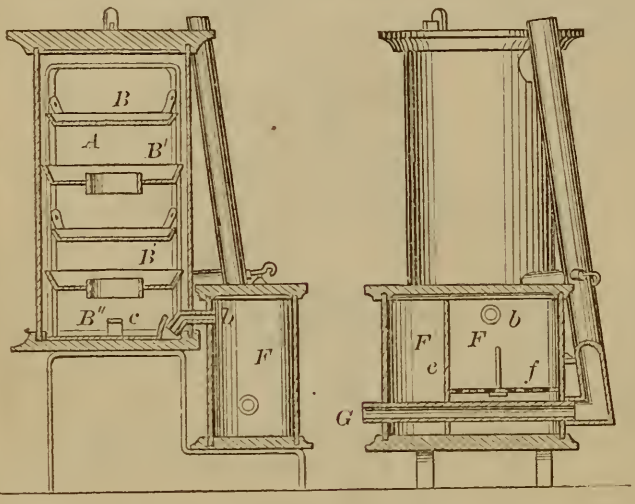


81974—J. A. Bassett—*For Manufacturing Gas.*

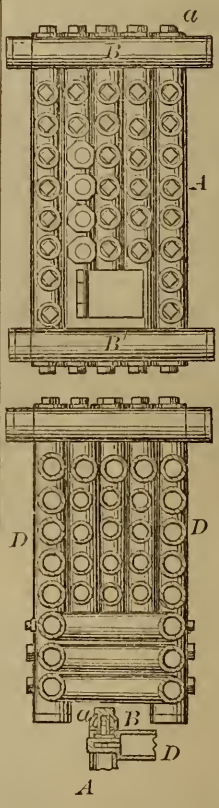


81970—E. J. Amor—*Screwdriver and Wrench.*

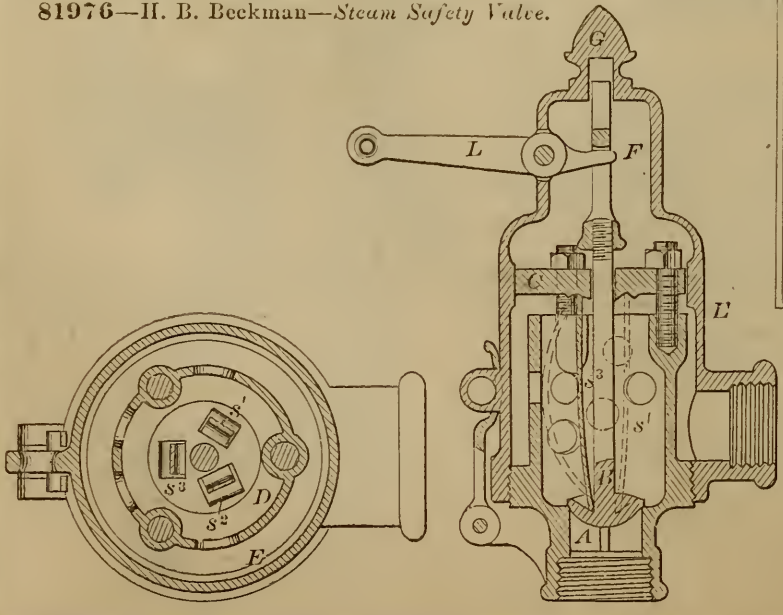
81971—J. Armstrong—*Feed Water Heater and Filter.*



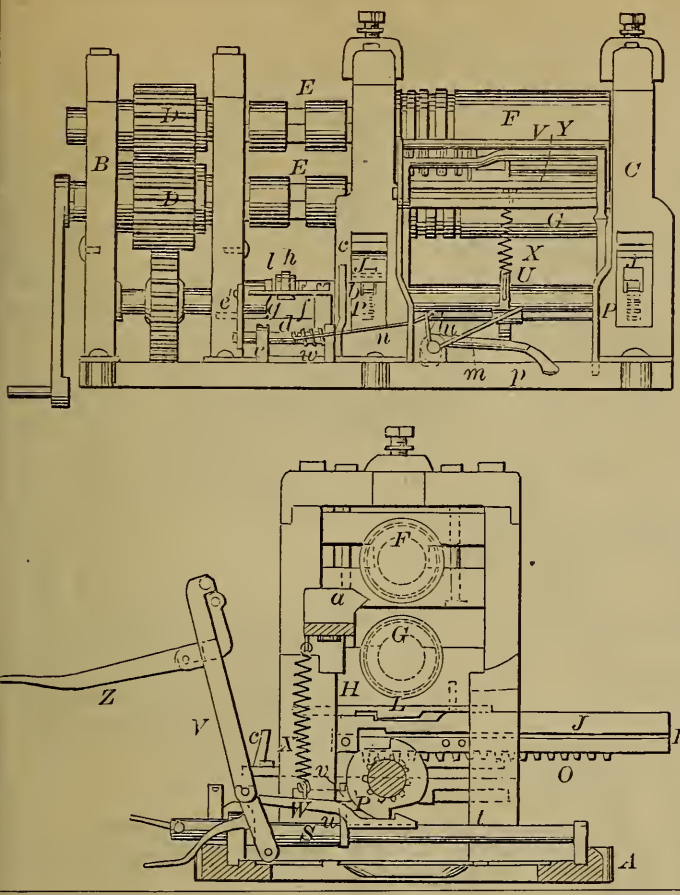
81972—J. Armstrong—*Steam Generator.*



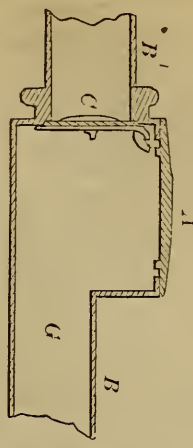
81976—H. B. Beckman—*Steam Safety Valve.*



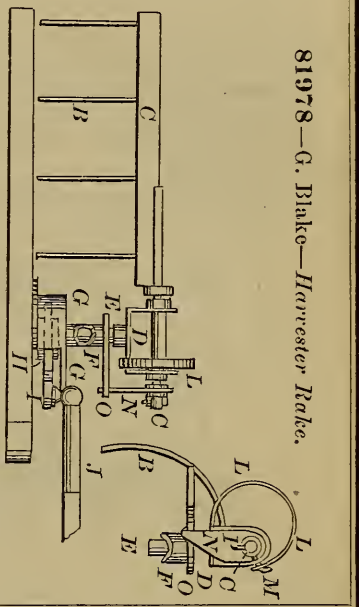
81973—J. H. C. Bachelder—*Rolling Mill.*



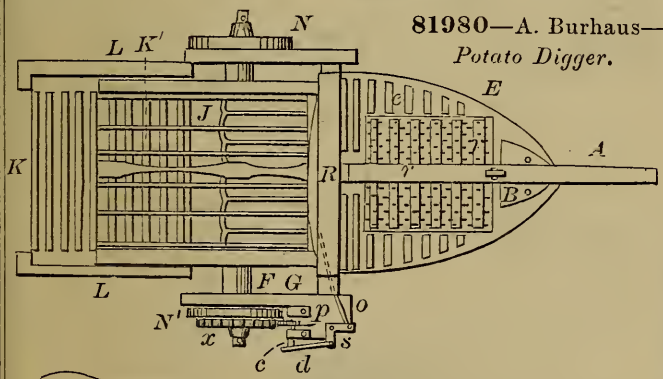
81977—C. Birkinshaw—*Sewer Pipe.*



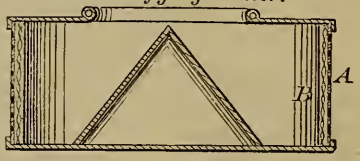
81978—G. Blake—*Harvester Rake.*

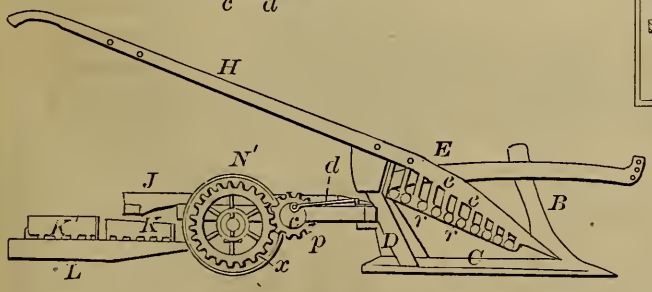


81980—A. Burhaus—*Potato Digger.*

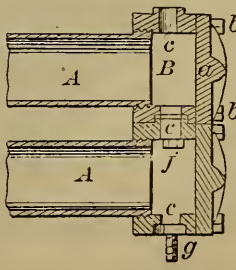


81979—M. S. Bringier—*Purifying Water.*

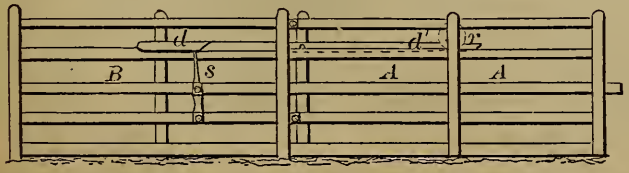




81983—J. M. Clark—*Steam Generator.*

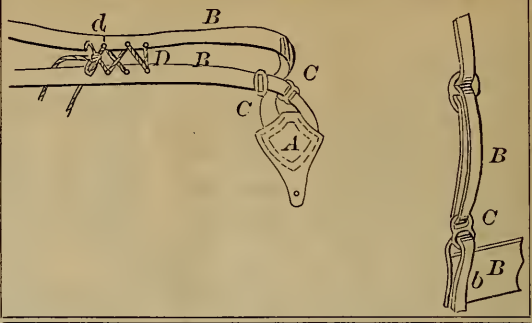


81982—L. Charles—*Gate.*

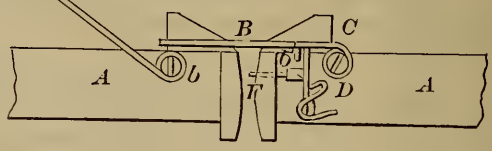


81981—R. K. Chandler—*Stocking Stretcher.*

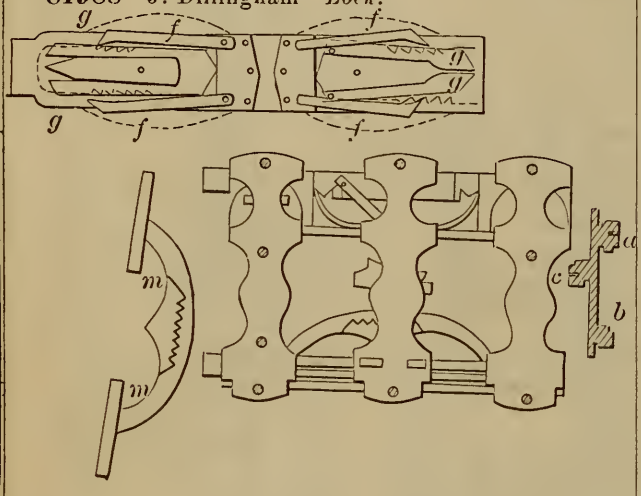
81984—C. H. Cleveland—*Suspenders.*



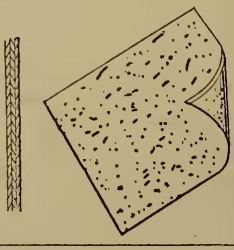
81985—J. M. Cook—*Car Coupling.*



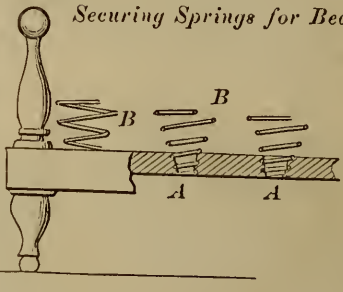
81988—J. Dillingham—*Lock.*



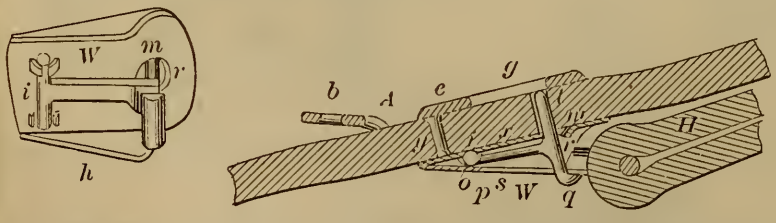
81986—J. H. Crane—*Polishing Fabric.*



81991—J. D. Egleston—*Securing Springs for Beds.*



81993—K. Frazer—*Harness Wedge.*



81990—N. Edwards—*Latch and Lock*

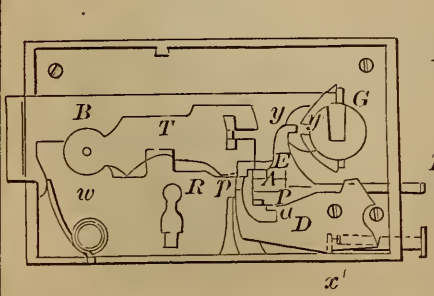


Fig. 5

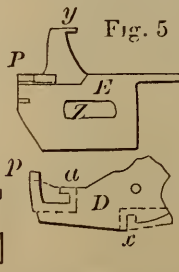
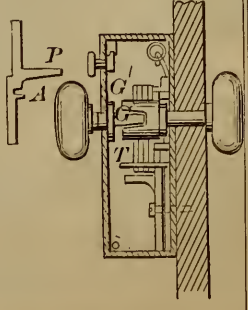
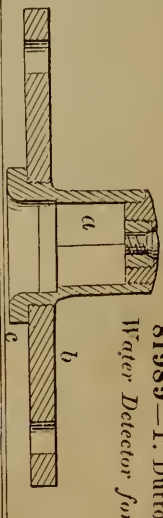


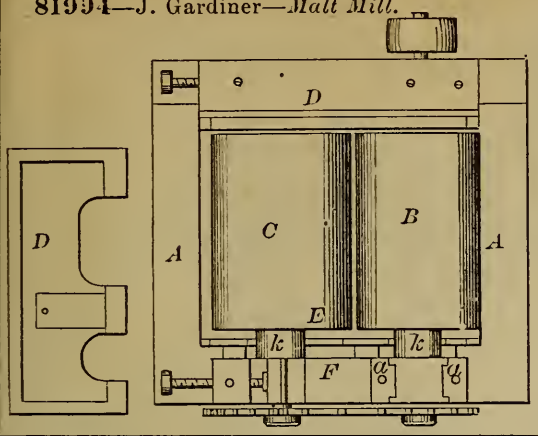
Fig. 7



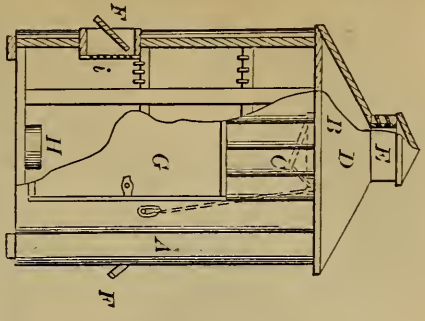
81989—T. Dutton—*Low Water Detector for Boilers.*



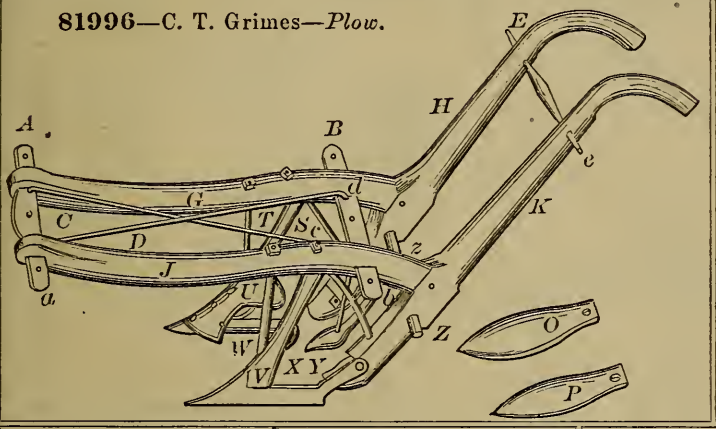
81994—J. Gardiner—*Malt Mill.*



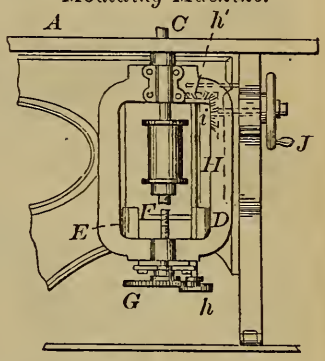
81995—C. Good—*Smoke House.*



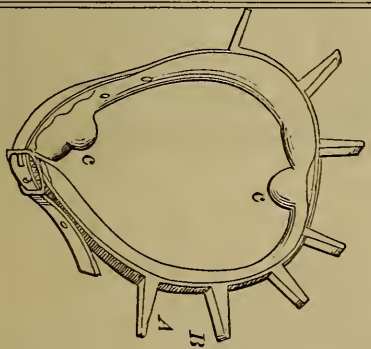
81996—C. T. Grimes—*Plow.*



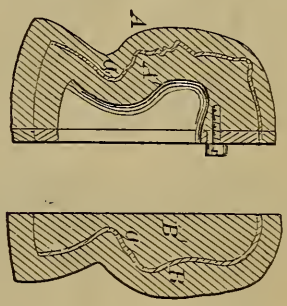
81997—J. P. Grosvenor—*Moulding Machine.*



81998—Hall & Clifford—*Anti-Interfering Band.*



81999—G. H. Hawkins—*Dolls' Head.*



82000—W. H. H. Hinds—*Candlestick.*

Fig. 1

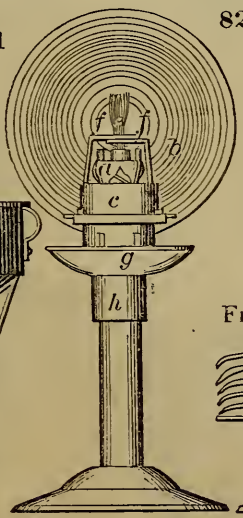


Fig. 2

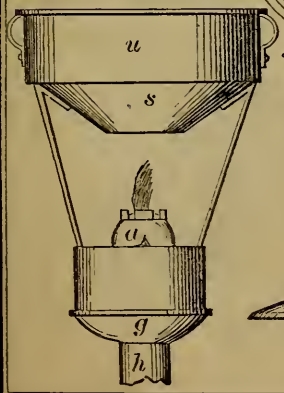


Fig. 6

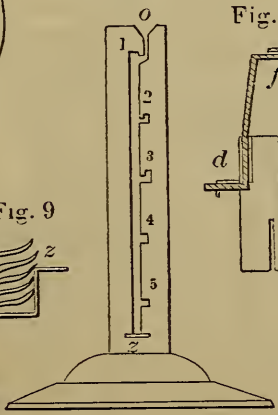


Fig. 4

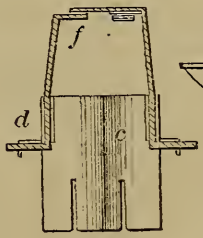


Fig. 3

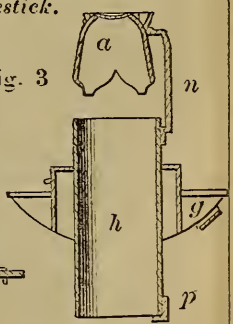
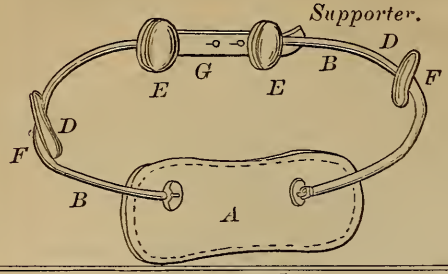
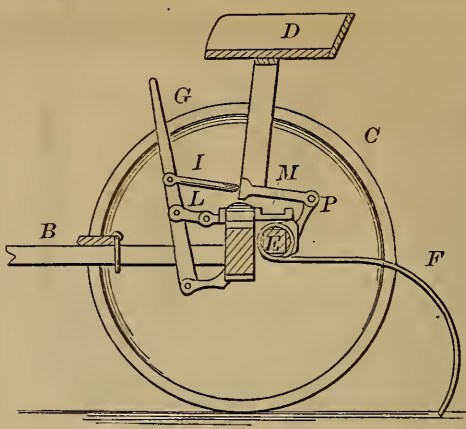


Fig. 9

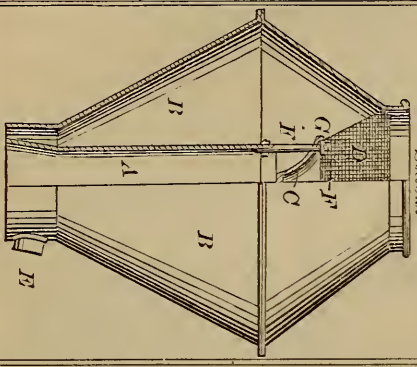
82001—S. L. Hockert—*Abdominal Supporter.*



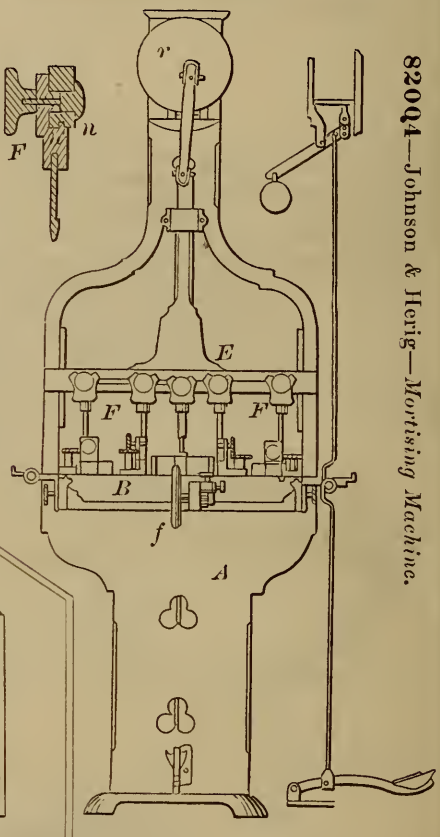
82002—W. Holmes—*Horse Hay Rake.*



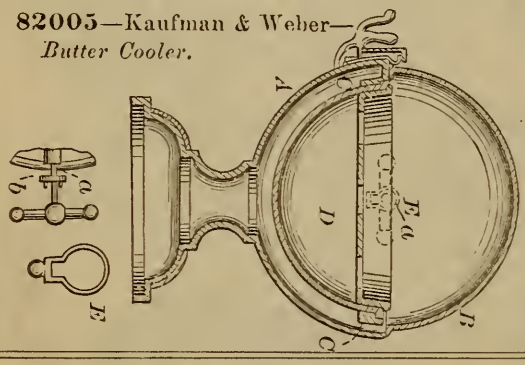
82003—G. Holton—*Smoke Stack.*



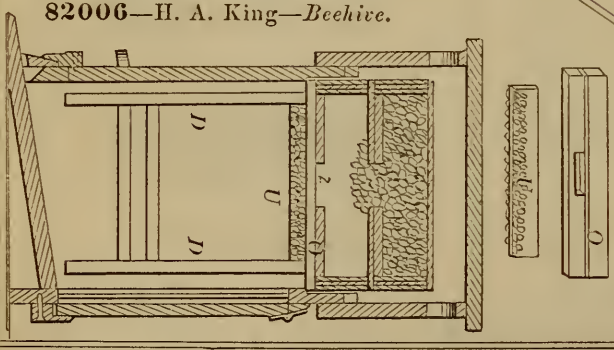
82004—Johnson & Herig—*Mortising Machine.*



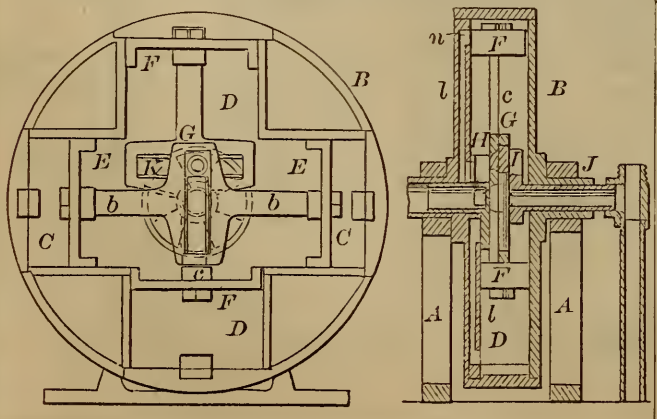
82005—Kaufman & Weber—*Butter Cooler.*



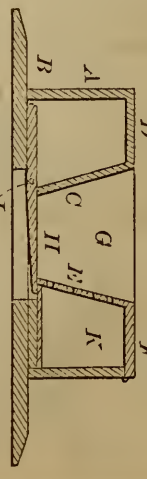
82006—H. A. King—*Beehive.*



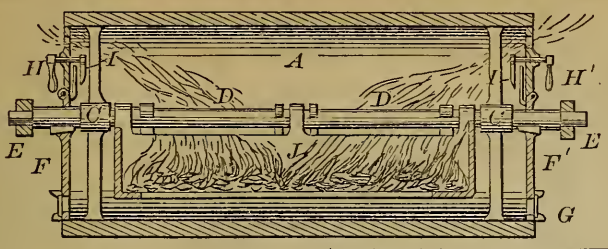
82007—A. Kipp, Jr.—*Rotary Steam Engine.*



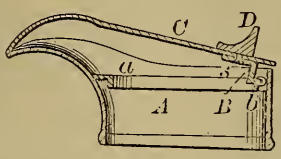
82008—T. B. Kirby—*Animal Trap.*

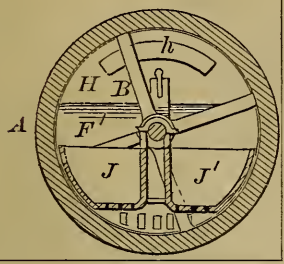


82009—E. W. Kittredge—*Paving Roller.*

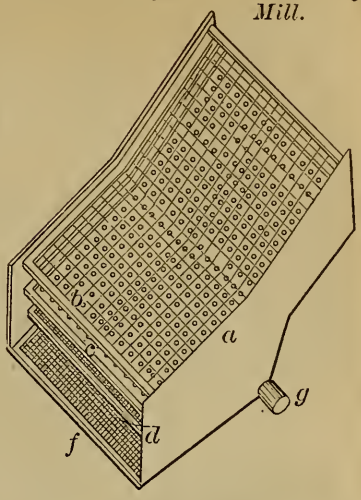


82010—P. Lauster—*Jug Top.*

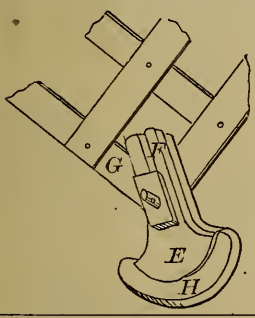




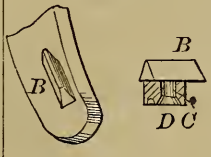
82011—E. Lindsley—*Fanning Mill.*

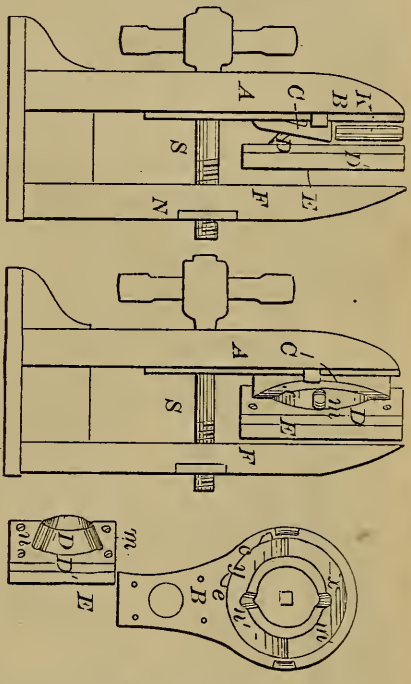


82012—J. M. Losie—*Spring Bed Bottom.*



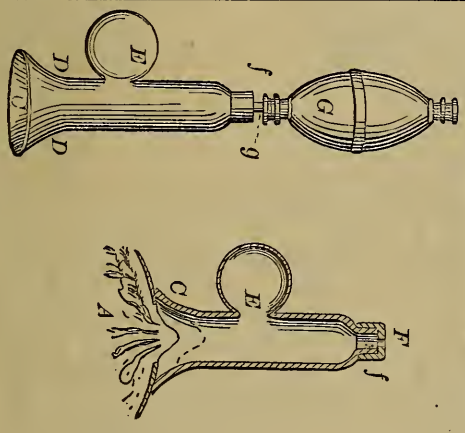
82013—H. D. Lyman—*Horse Shoe.*



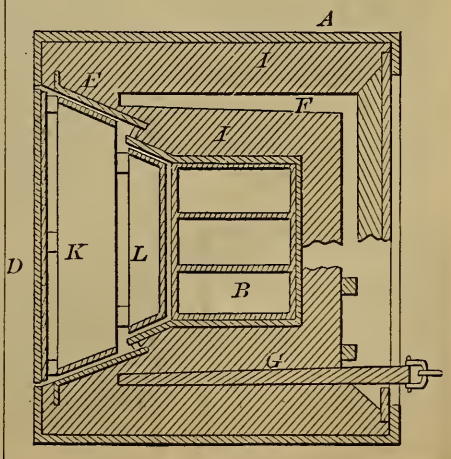


82014—Mason & Robbins—*Vise.*

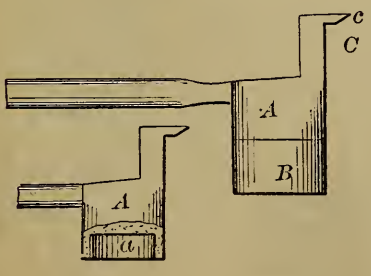
82015—M. Mattson—*Breast Pump.*



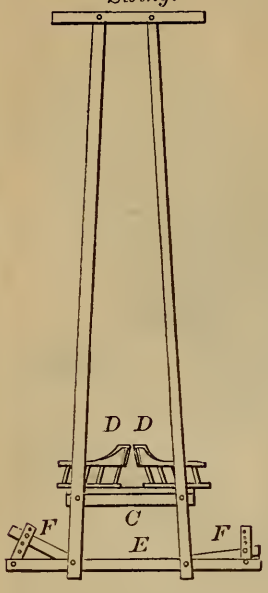
82016—McFarland & Butler—*Safe.*



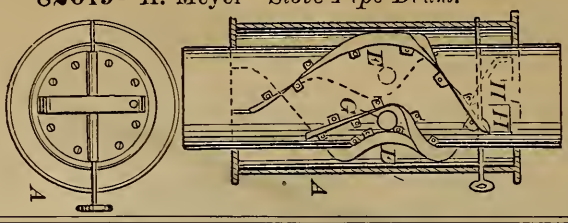
82017—W. S. McNiel—*Hammer and Mallet.*



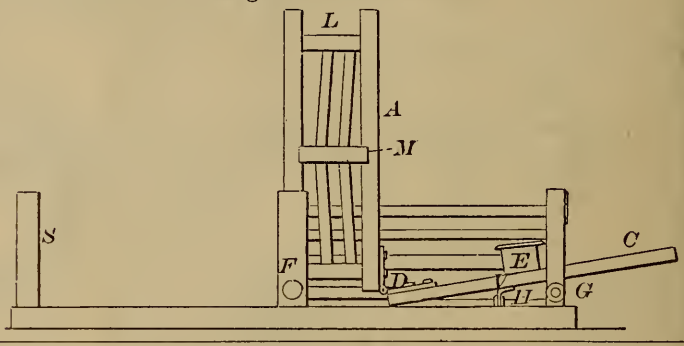
82018—H. F. Metzler—*Swing.*



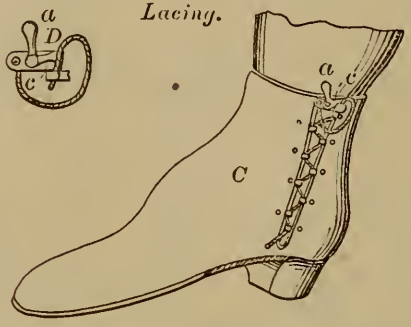
82019—H. Meyer—*Stove Pipe Drum.*



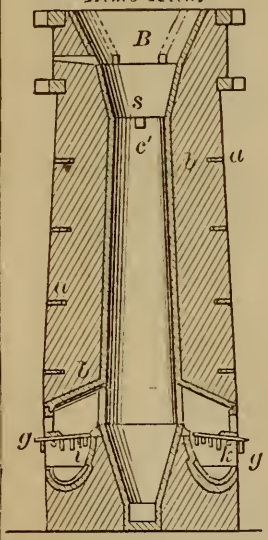
82021—R. C. Mighell—*Gate.*



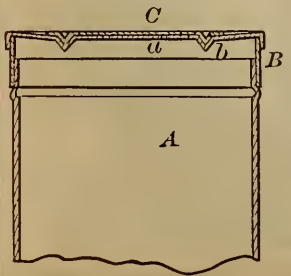
82022—W. F. Oliver—*Shoe Lacing.*



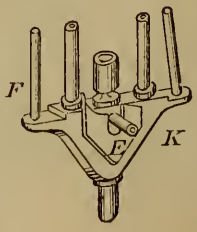
82023—C. D. Page—*Lime Kiln.*

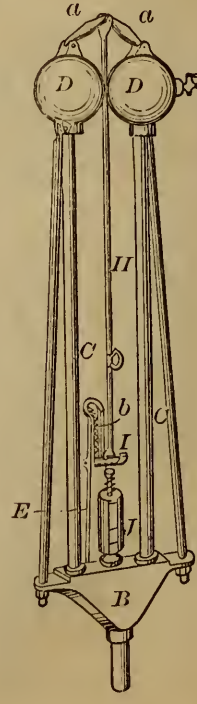


82024—C. T. Palmer—*Spice Box.*

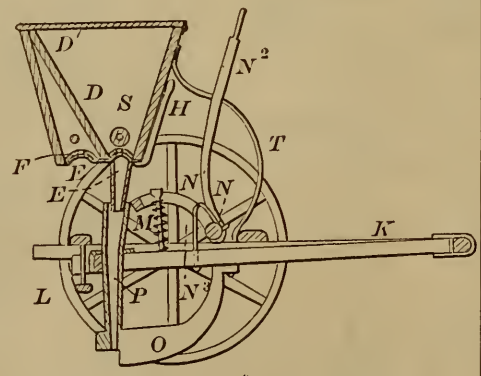


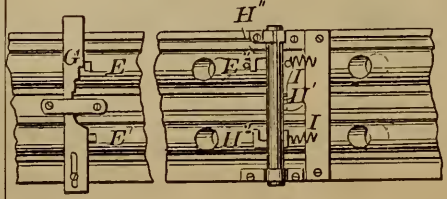
82025—S. B. Palmer—*Low Water Alarm for Steam Generators.*



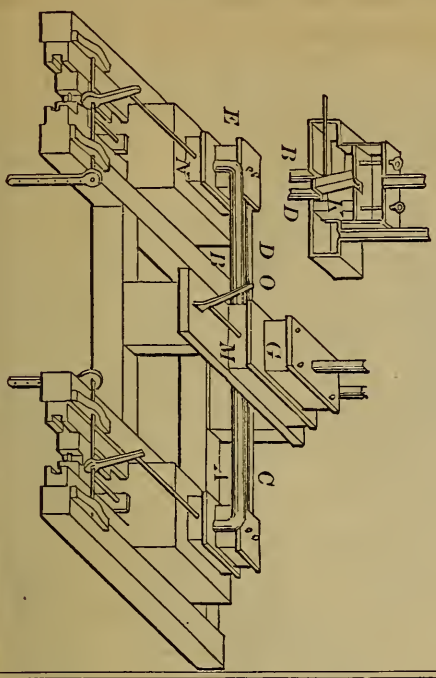


82026—C. W. Patton—*Wheat Drill.*

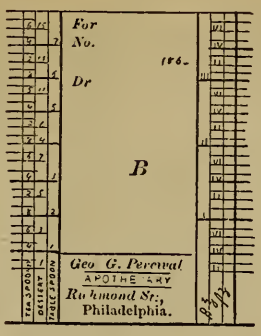


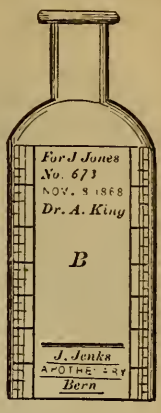


82027—J. B. Pedrick—*Steam Engine.*

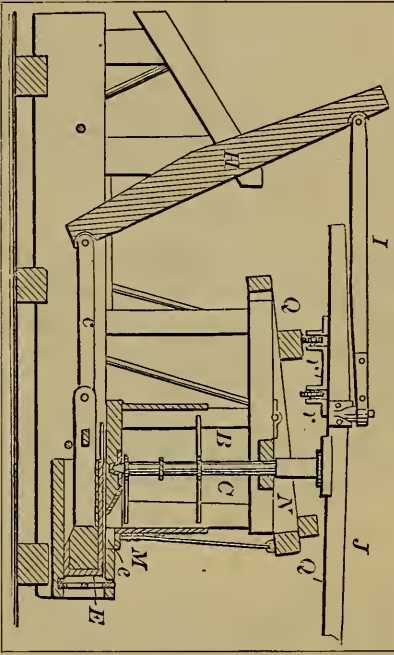


82028—G. G. Percival—*Label.*



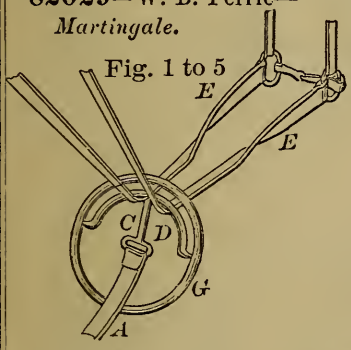


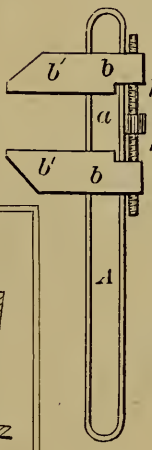
82034—W. L. Reck—*Tile Machine*



82029—W. B. Perrie—*Martingale.*

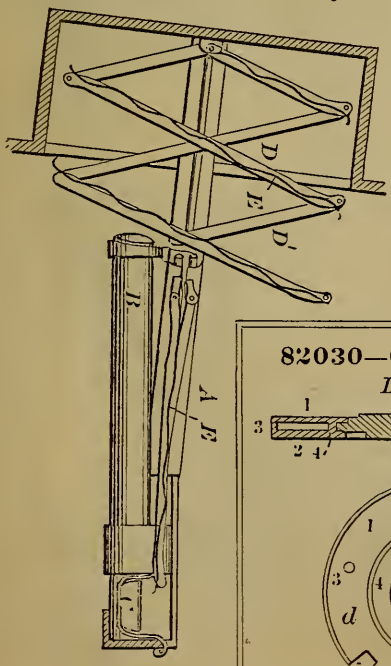
Fig. 1 to 5



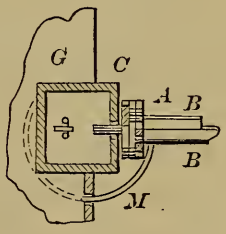


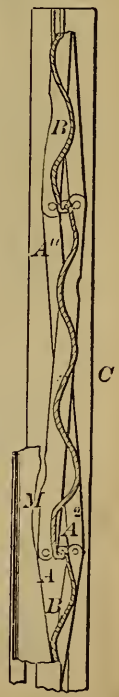
82033—E. W. Quiney—*Wrench.*

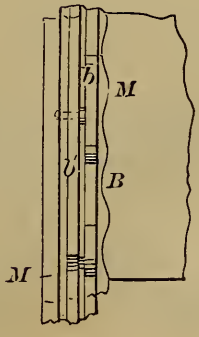
82032—N. Poulson—*Awning.*



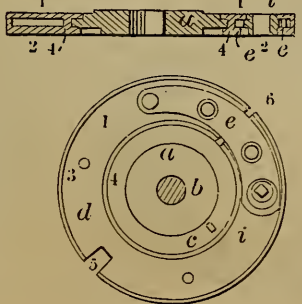
82031—N. Poulson—*Window Shutter.*



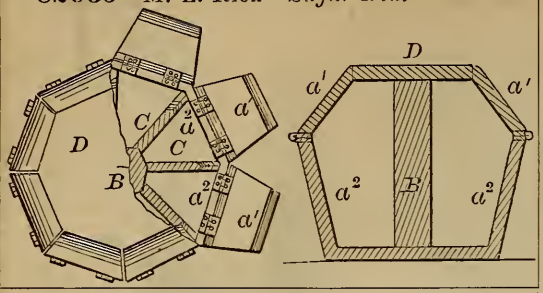




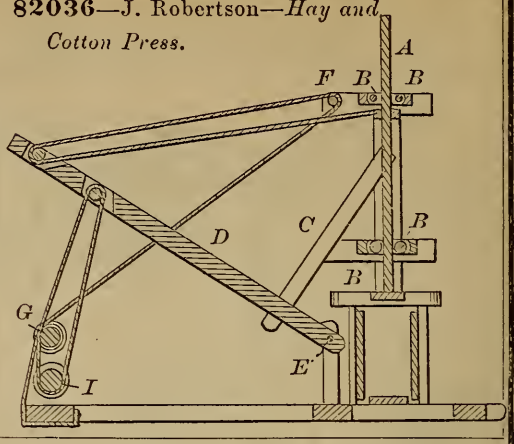
82030—O. E. Pillard—*Lock.*



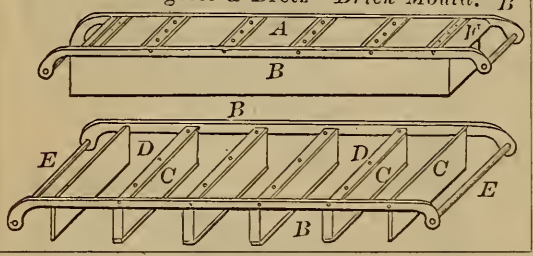
82035—M. L. Rich—*Sugar Bin.*



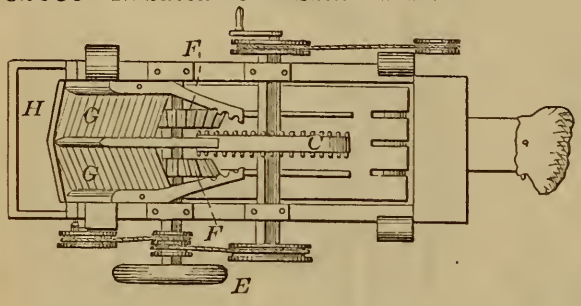
82036—J. Robertson—*Hay and Cotton Press.*

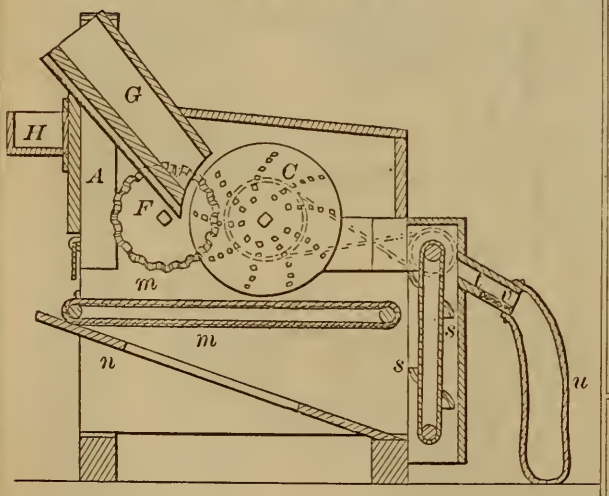


82037—Sangster & Bretz—*Brick Mould.*

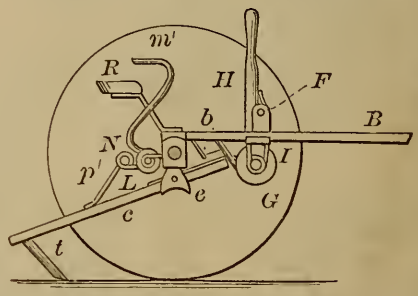


82039—N. Shock—*Corn Sheller and Cleaner.*

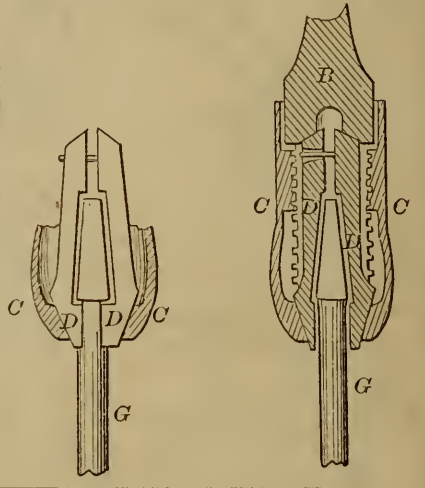




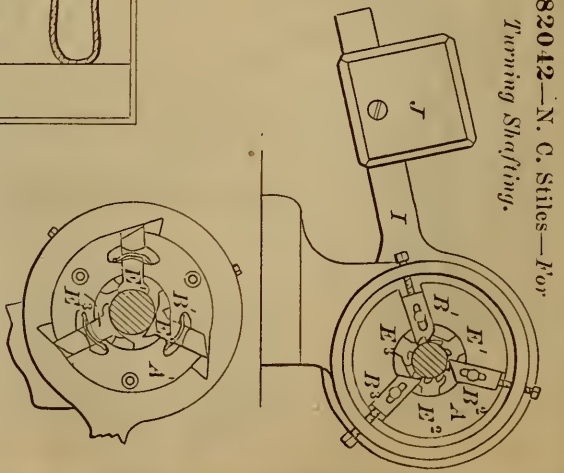
82040—F. Smith—*Horse Rake.*



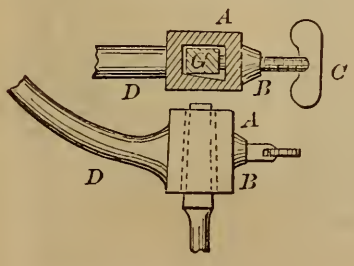
82041—R. D. O. Smith—*Bit Stock.*



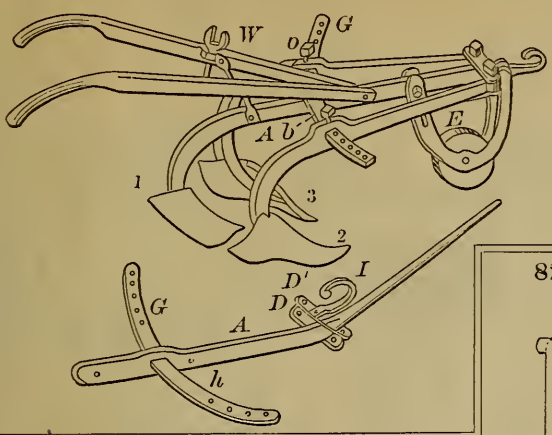
82042—N. C. Stiles—*Turning Shafting.*



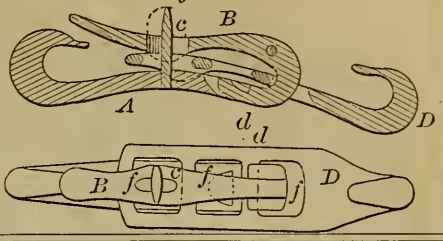
82044—O. H. Taylor—*Bit Stock.*



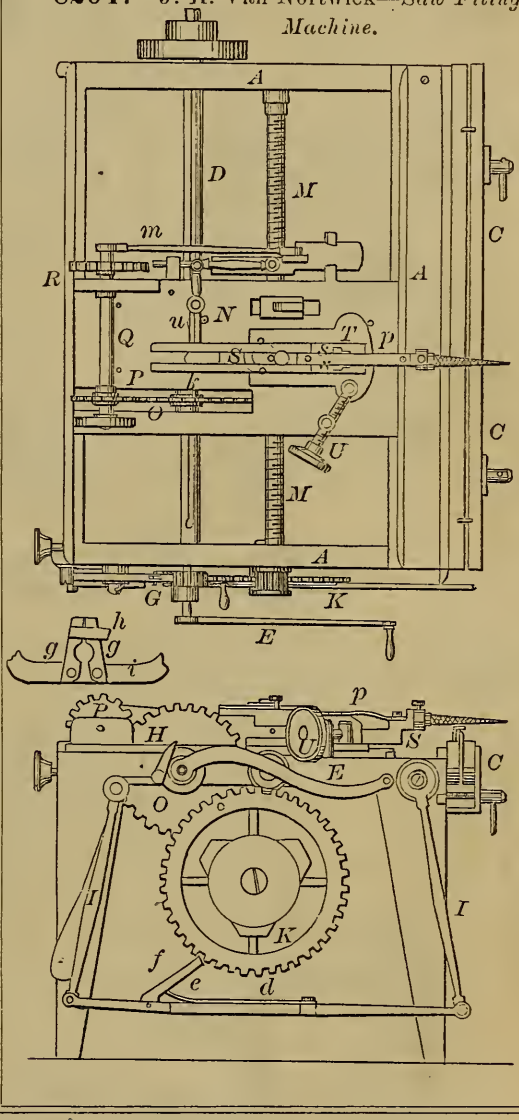
82043—M. Stoll—*Potato Plow.*



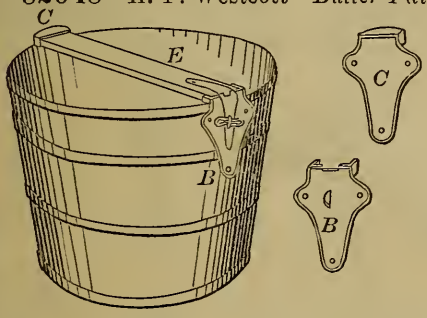
82045—Thompson & Lovè—*Fastening Hames.*



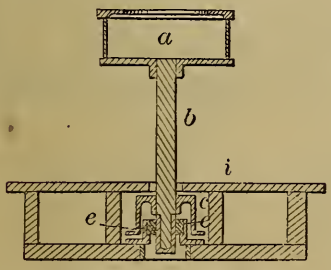
82047—J. H. Van Nortwick—*Saw Filing Machine.*



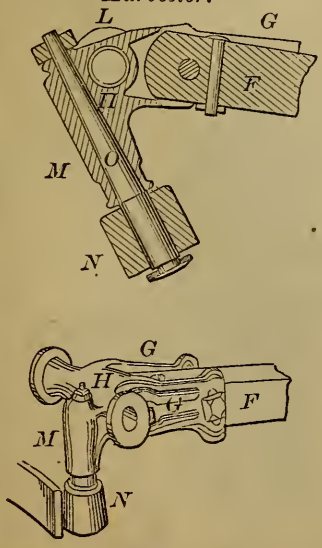
82048—H. P. Westcott—*Butter Pail.*



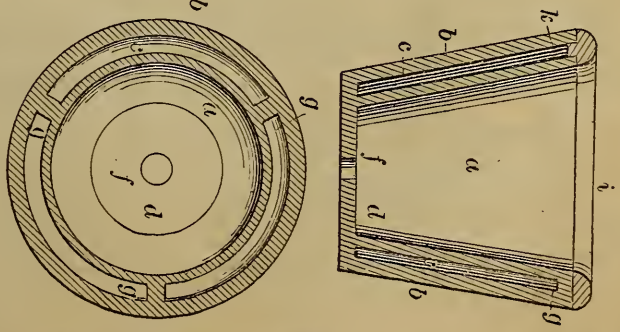
82049—D. M. Weston—*Centrifugal Machine.*



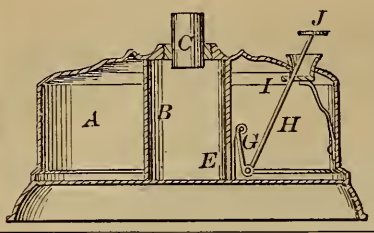
82050—W. N. Whiteley—*Harvester.*



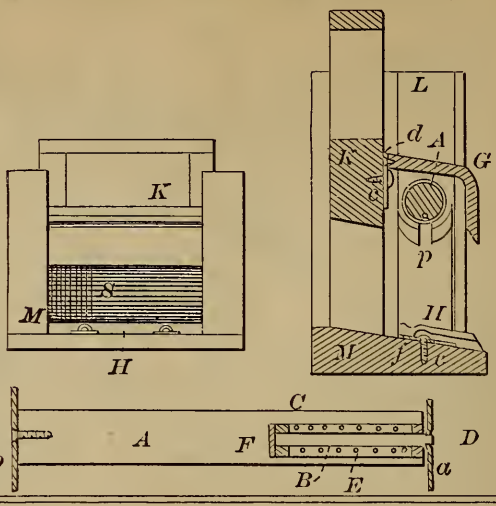
82052—E. Whitman—*Flower Pot.*



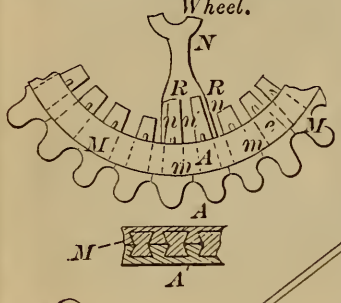
82051—A. Whitlock—*Lamp.*



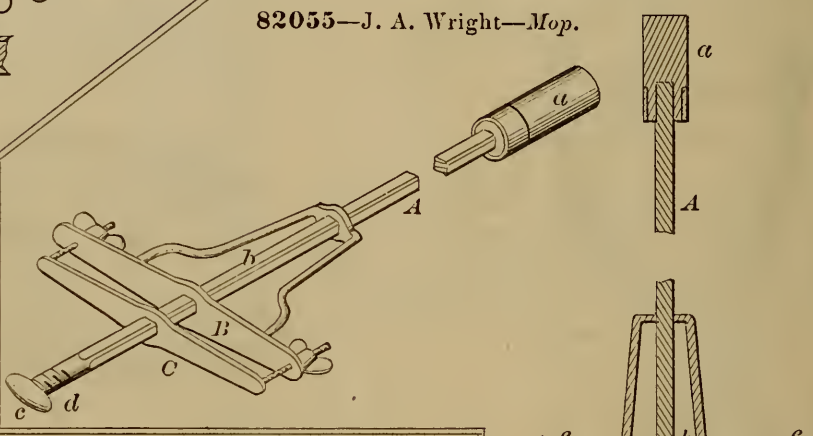
82053—R. S. Whittier—*Window Screen.*



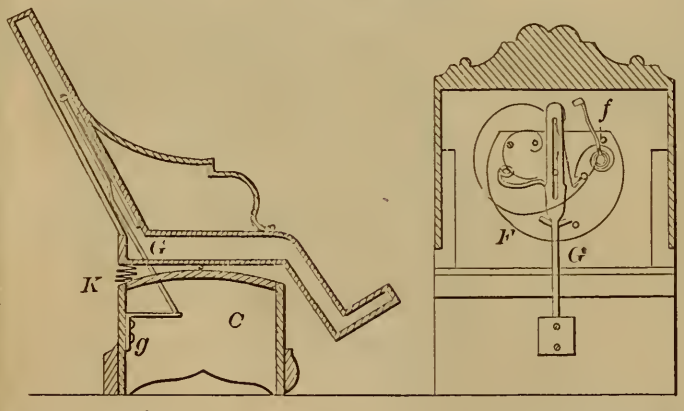
82054—C. F. Woodruff—*Spur Wheel.*

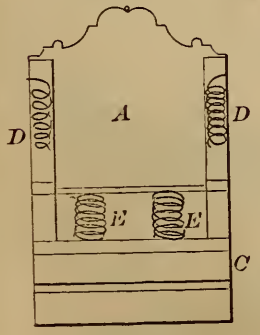


82055—J. A. Wright—*Mop.*

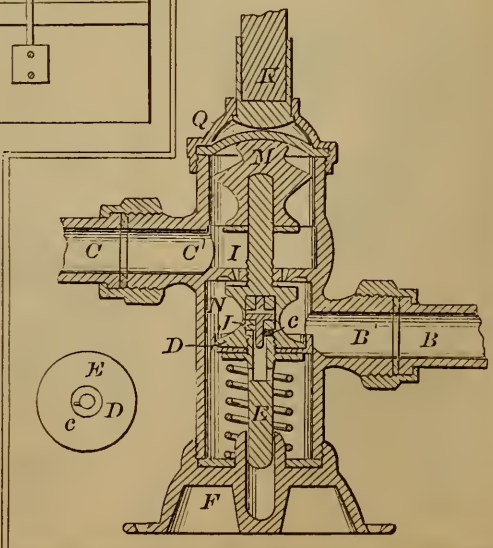


82056—J. A. Wroe—*Exercising Chair.*



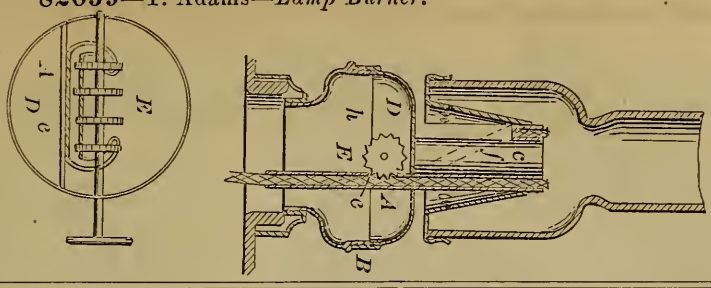


82057—D. Morrison—*Water Closet Valve.*

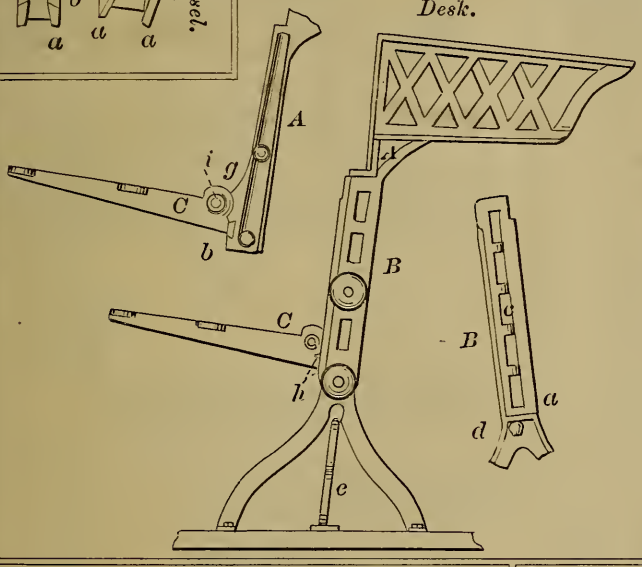


82058—Adams & Hatch—*Chisel.*

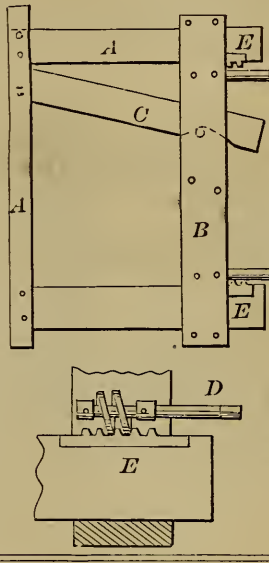
82059—T. Adams—*Lamp Burner.*



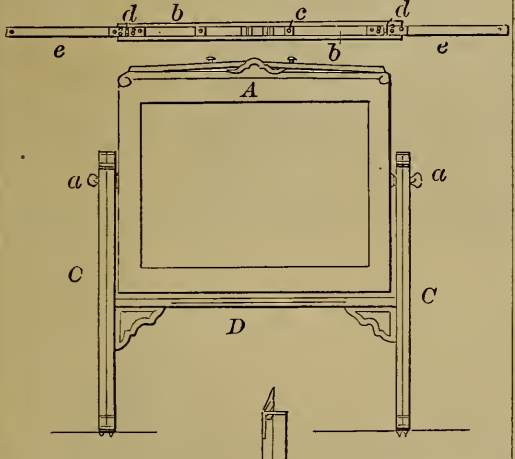
82061—H. L. Andrews—*School Desk.*



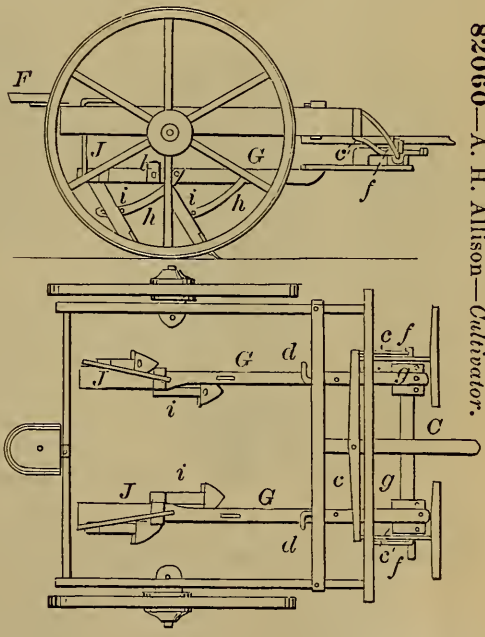
82063—Andrews & Dingwell—*Leather Stretching Machine.*



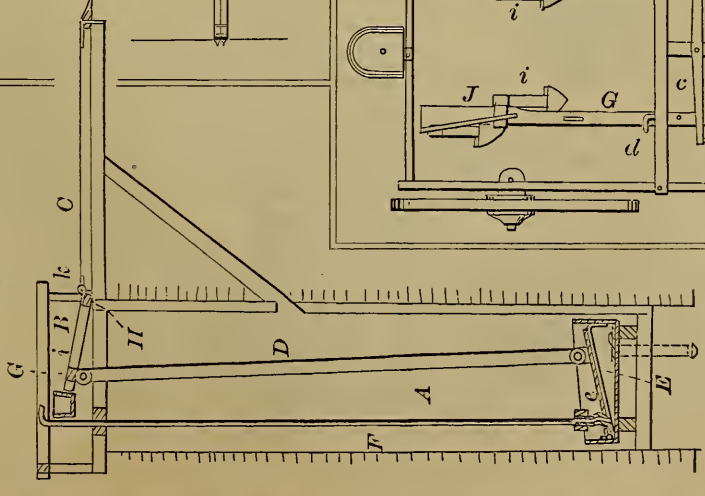
82062—H. L. Andrews—*Blackboard.*



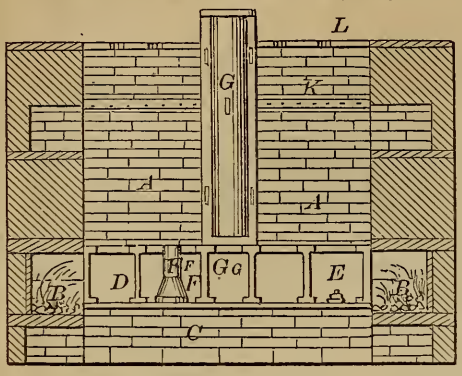
82060—A. H. Allison—*Cultivator.*

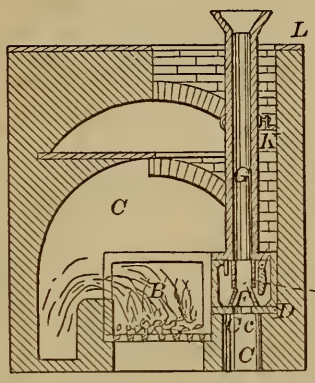


82064—W. T. Armstrong—*Stock Pump.*

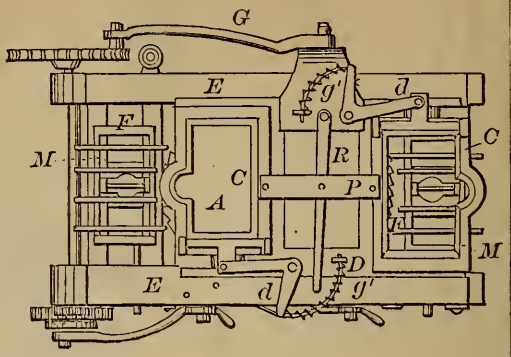


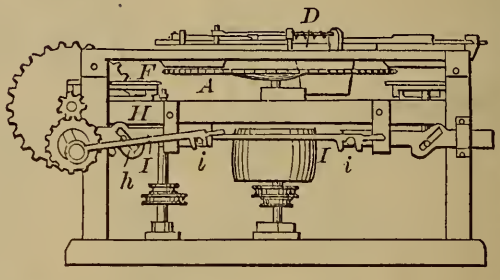
82065—J. Aston—*Moulding Pipe.*

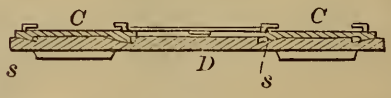


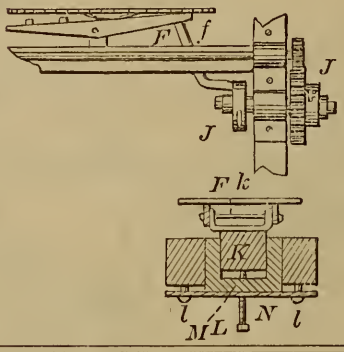


82067—J. E. Austin—*Shingle Machine.*

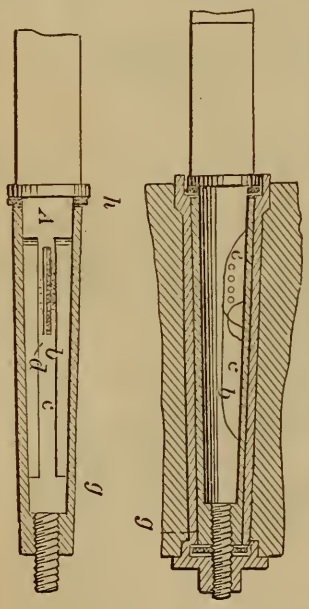




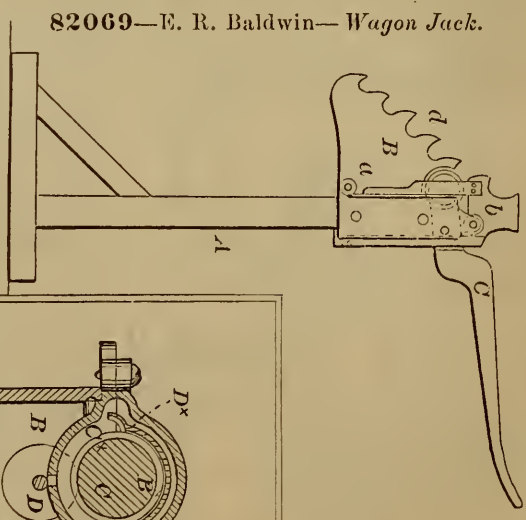




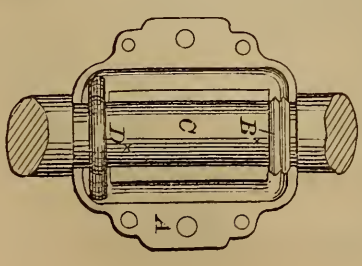
82068—C. G. Bachelder—*Wagon Axle.*

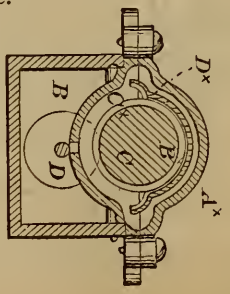


82069—E. R. Baldwin—*Wagon Jack.*

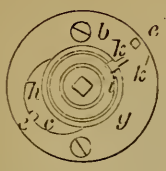


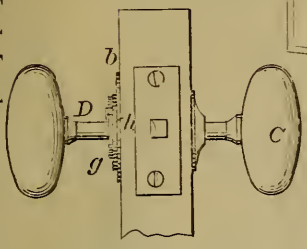
82066—J. E. Atwood—*Journal Box.*



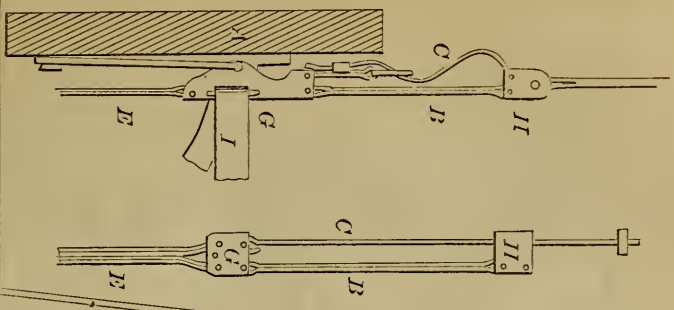


82070—T. C. Ball—*Knob Latch.*

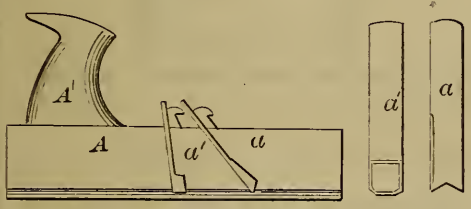




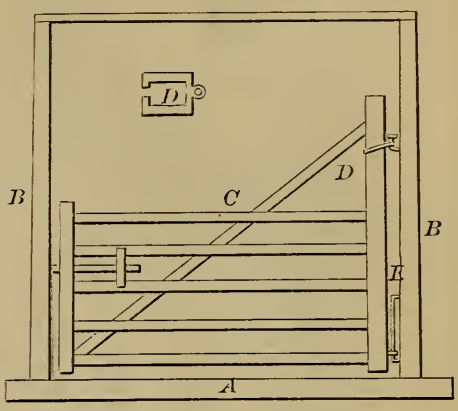
82072—E. Barron—*Harness.*



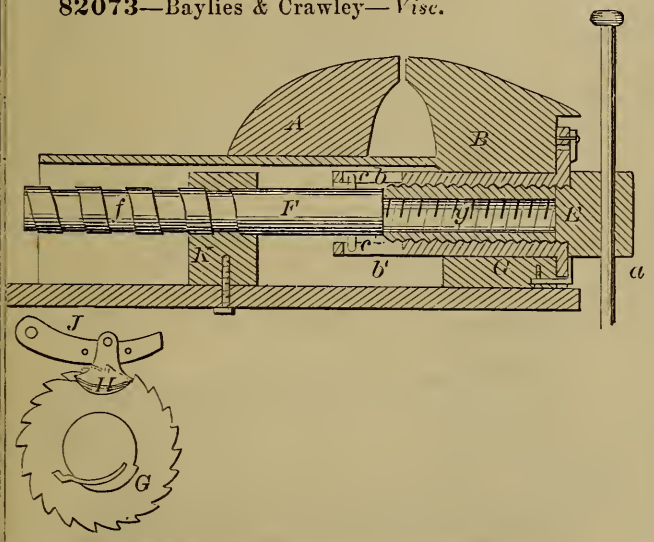
82074—V. Bitsch—*Plane.*



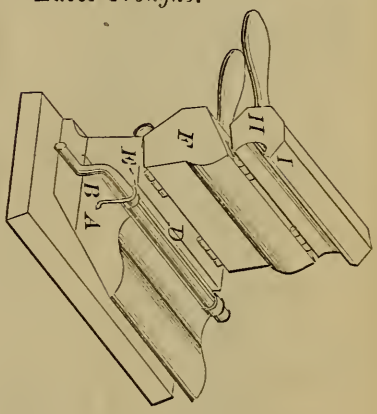
82075—C. S. Bonney—*Gate.*



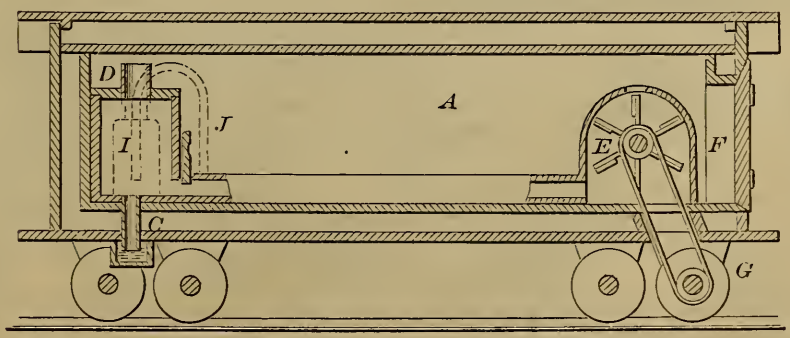
82073—Baylies & Crawley—*Vise.*



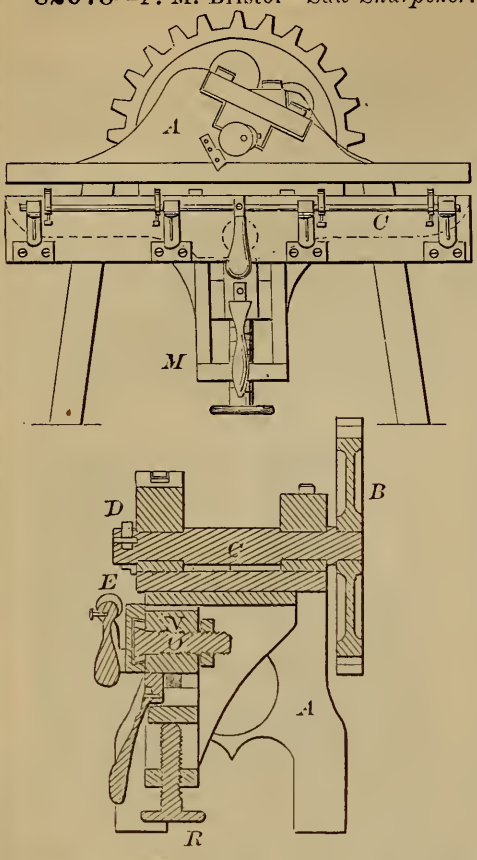
82077—J. Brett—*For Forming Eaves Troughs.*



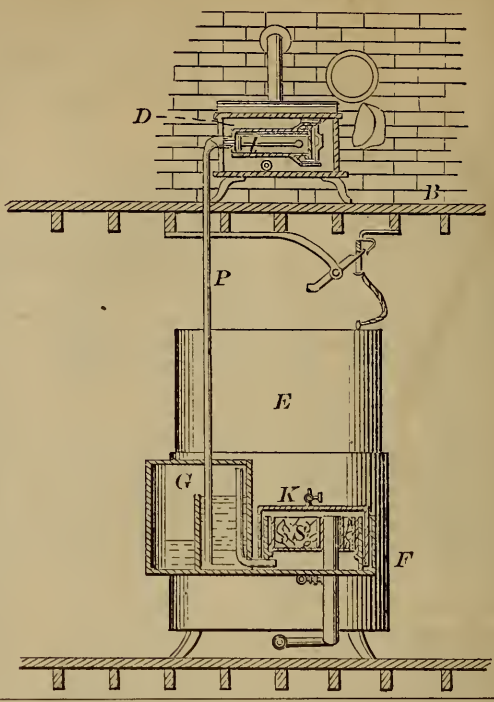
82076—W. Bray—*Refrigerator.*



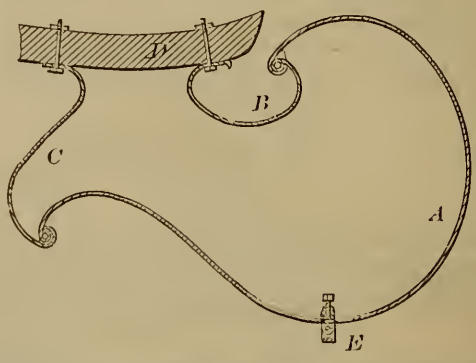
82078—P. M. Bristol—*Saw Sharpener.*



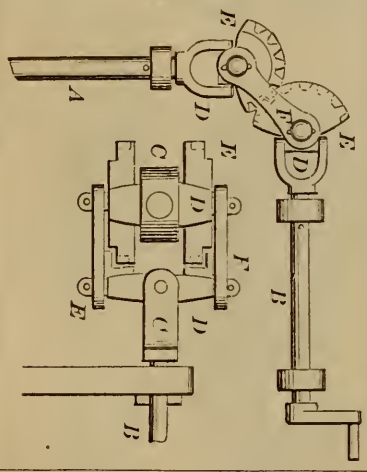
82080—J. W. Brown—*Manufacture of Gas.*



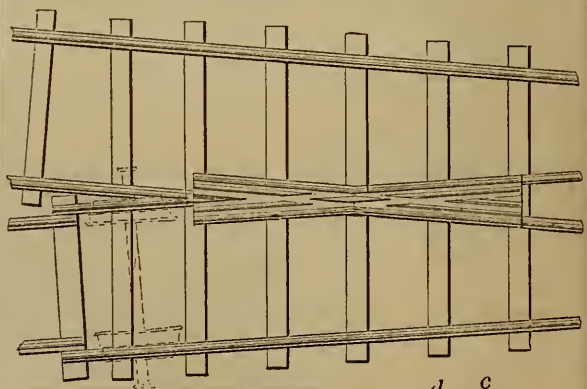
82082—A. Buzzell—*Carriage Spring.*



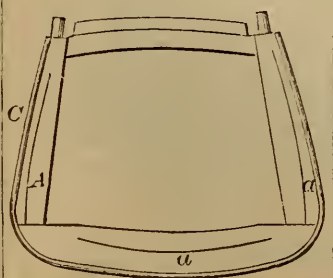
82084—J. M. Case—*Shaft Coupling.*



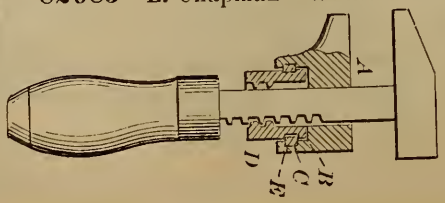
82086—W. H. Childe—*Car Wheel and Frog.*

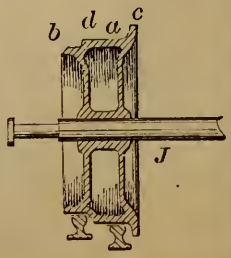


82081—E. L. Buckingham—*Chair Seat.*

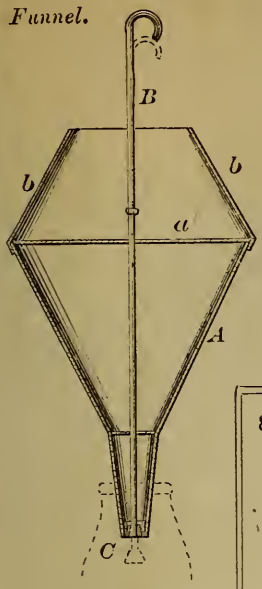


82085—L. Chapman—*Wrench.*

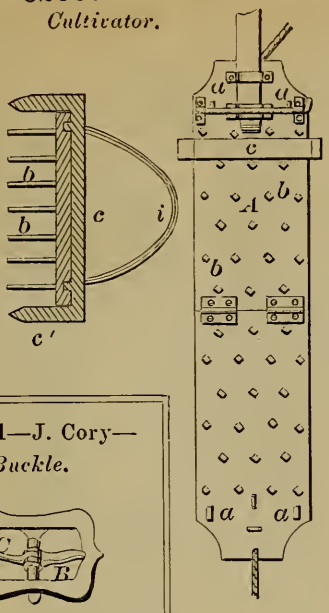




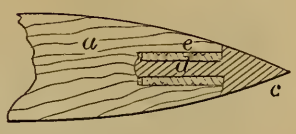
82087—C. Chinnock—*Funnel.*



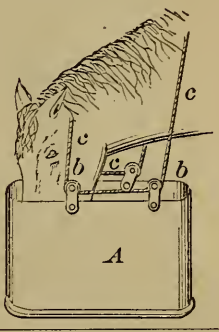
82089—J. H. Clifton—*Cultivator.*



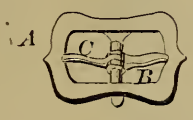
82090—Clough & Baldwin—*Shuttle.*



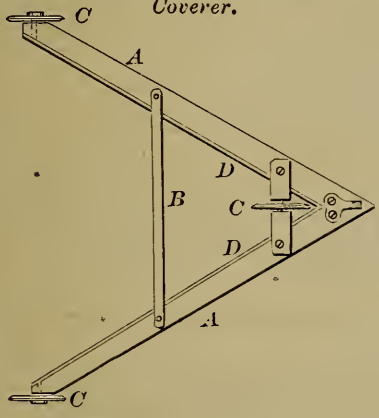
82088—C. Chinnock—*Feed Bag.*



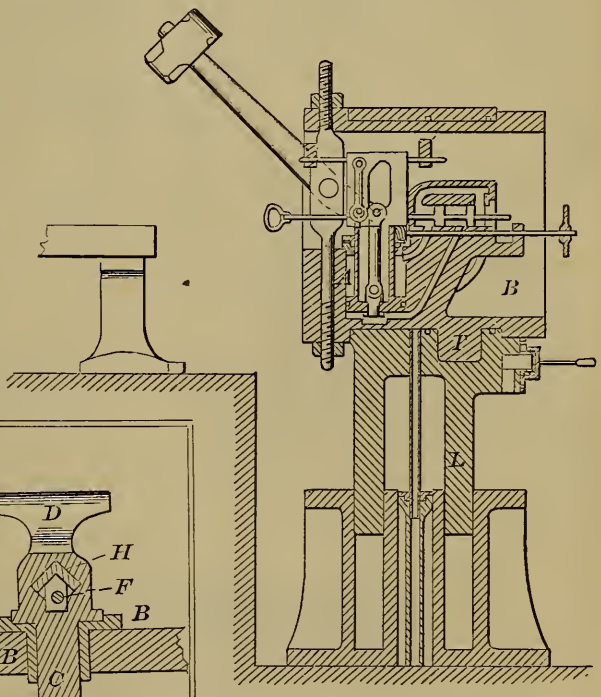
82091—J. Cory—*Buckle.*



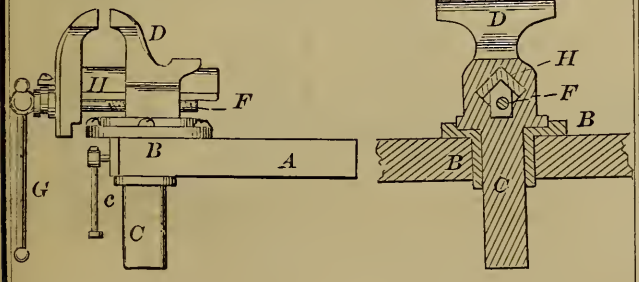
82092—E. D. Cramer—*Seed Coverer.*



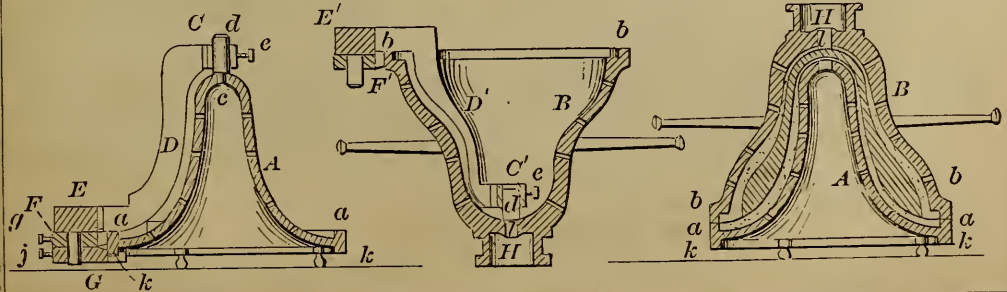
82093—D. Davies—*Forging Apparatus.*



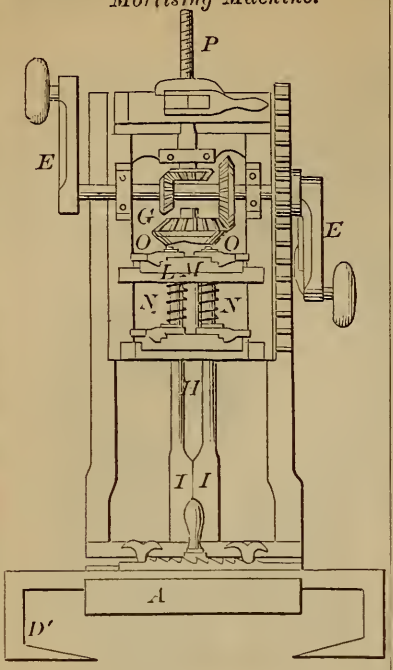
82095—F. J. Dibble—*Vise.*



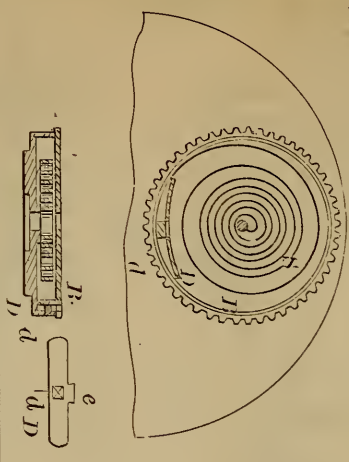
82094—W. H. Davis—*Moulding Bells.*



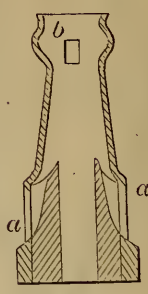
82096—J. J. Early—*Boring and Mortising Machine.*



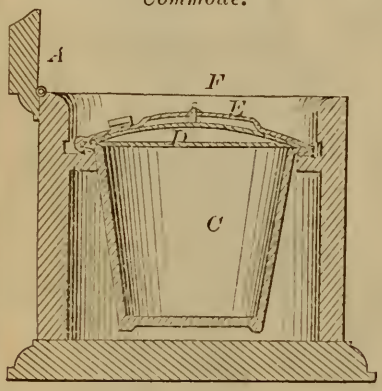
82097—J. Elson—*Watch Attachment.*



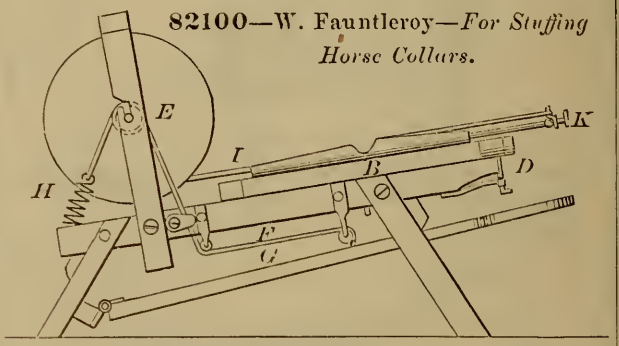
82098—H. English—*Chimney Top.*



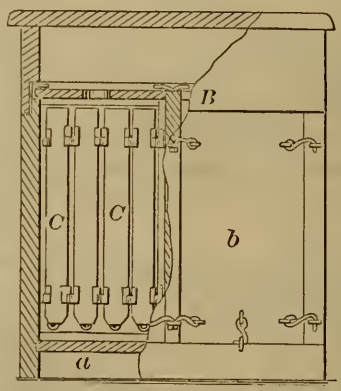
82099—E. S. Farson—*Chamber Commode.*



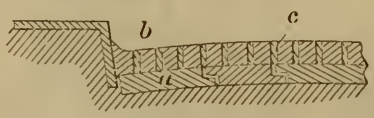
82100—W. Fauntleroy—*For Stuffing Horse Collars.*



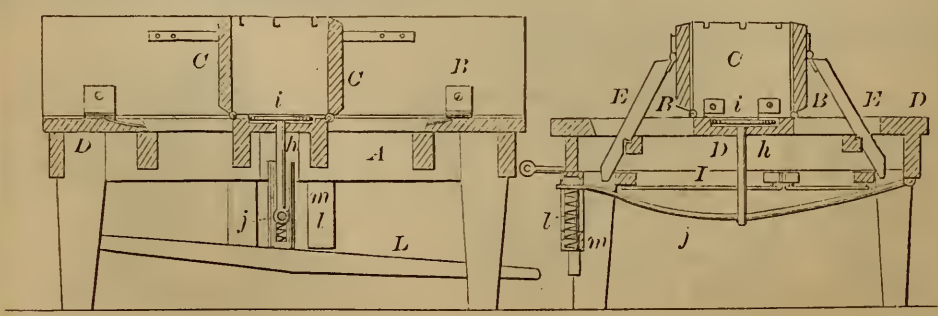
82101—O. Field—*Beehive.*



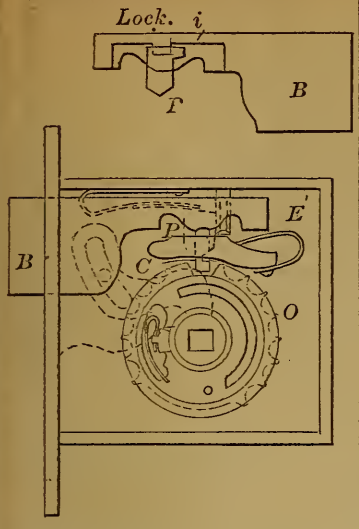
82102—R. Foley—*Pavement.*



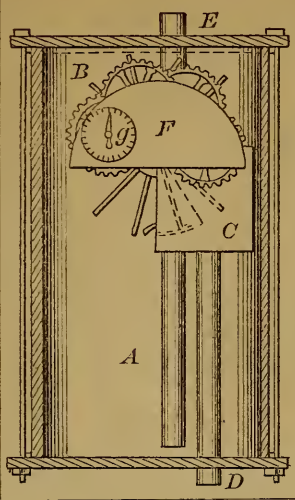
82103—A. W. Fox—*For Pressing, Packing and Weighing Wool.*



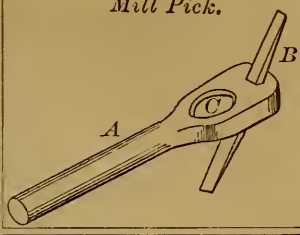
82104—C. R. C. French—*Lock.*



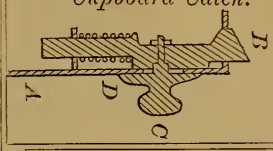
82105—C. A. & G. W. Geissenhainer—*Meter.*



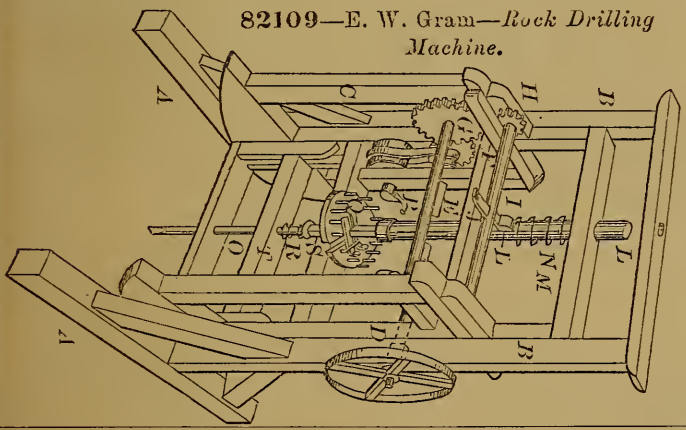
82107—H. H. Gillett—*Mill Pick.*



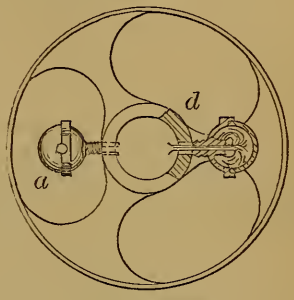
82108—P. D. F. Goewey—*Cupboard Catch.*



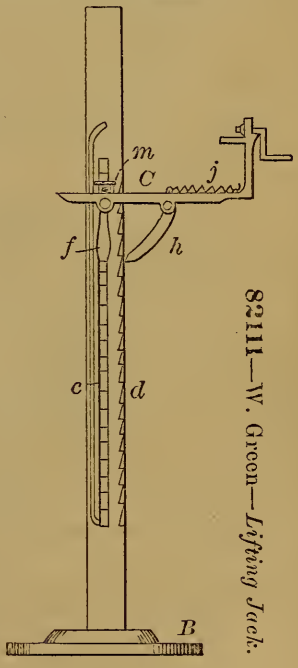
82109—E. W. Gram—*Rock Drilling Machine.*



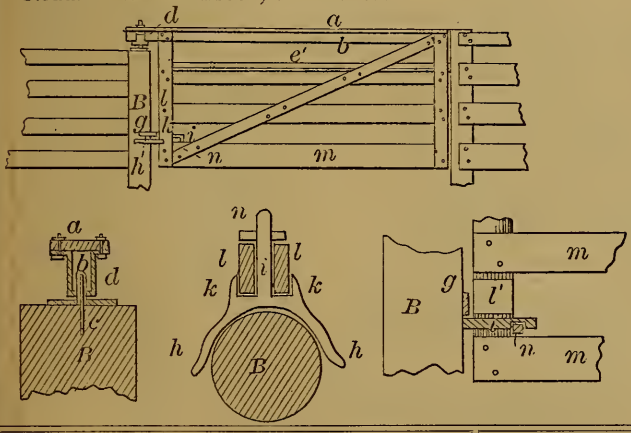
82110—J. H. Gray—*Lubricating Pulleys.*



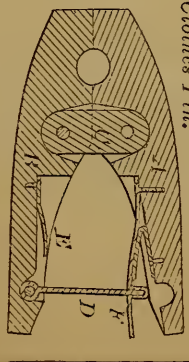
82111—W. Green—*Lifting Jack.*



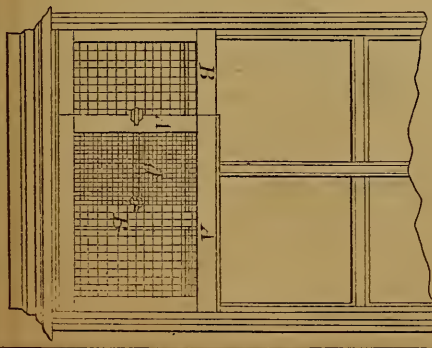
82112—W. W. Green, Jr.—*Gate.*

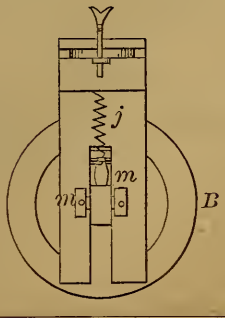


82114—Haigney & Hedman—*Clothes Pin.*

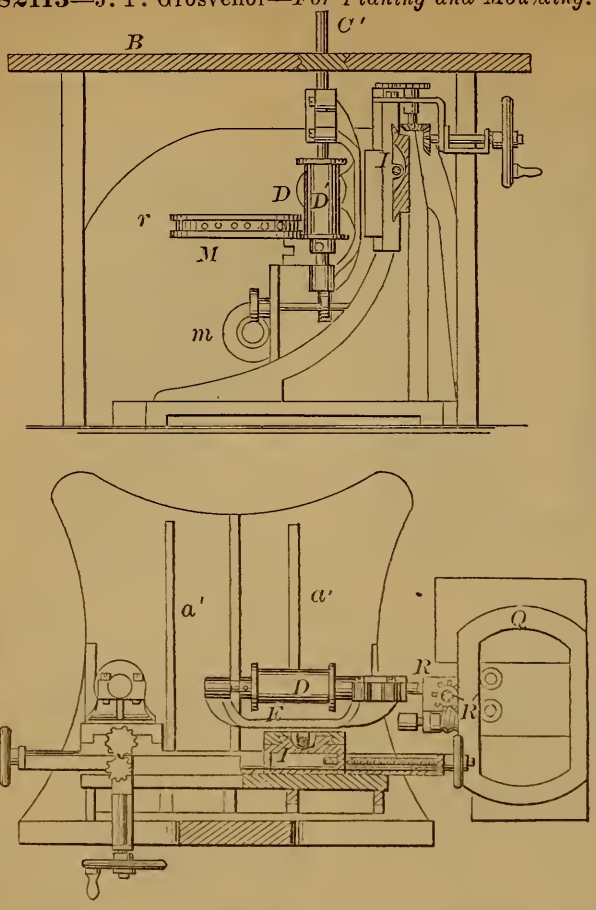


82115—F. Hatch—*Screen.*

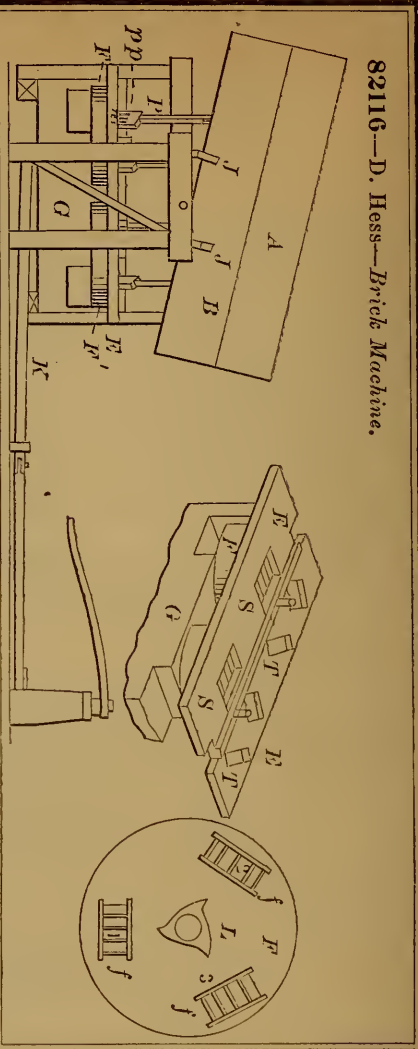




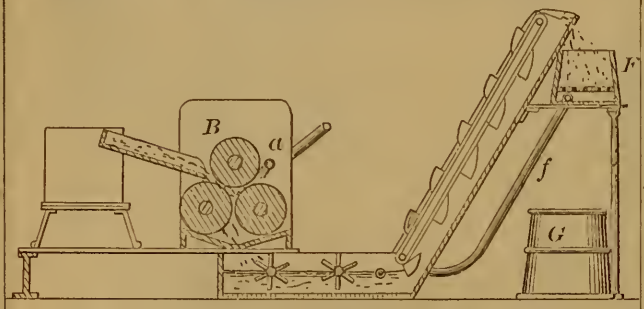
82113—J. P. Grosvenor—*For Planing and Moulding.*



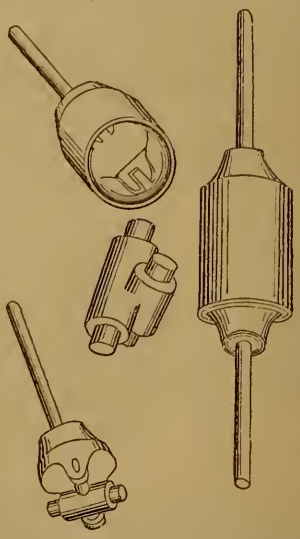
82116—D. Hess—*Brick Machine.*



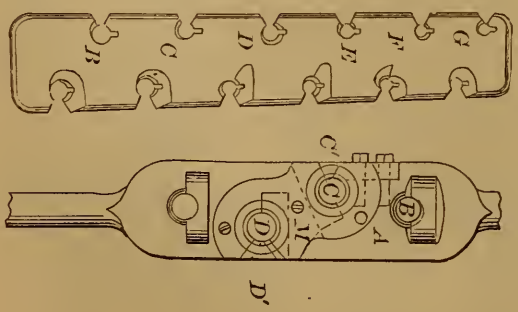
82121—T. W. Johnson—*Extracting Tan Bark.*



82117—J. Heuermann—*Coupling.*

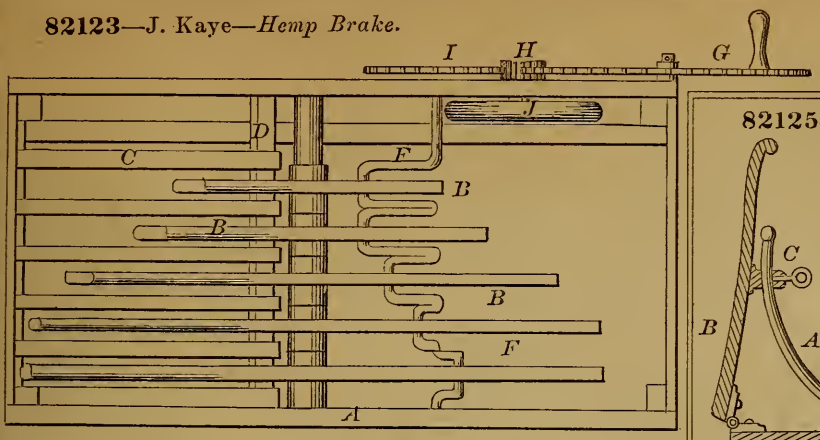


82118—A. Hoermann—*Die.*

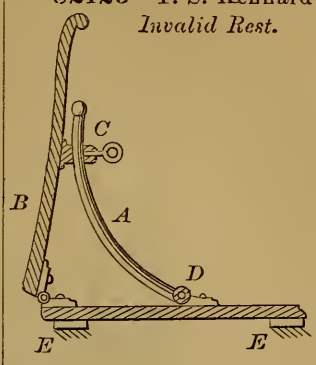


82119—Howell, Finn & Duy—*Floor Covering.*

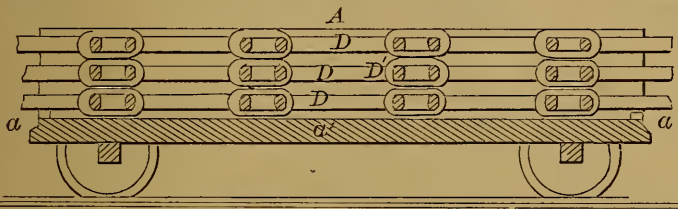
82123—J. Kaye—*Hemp Brake.*

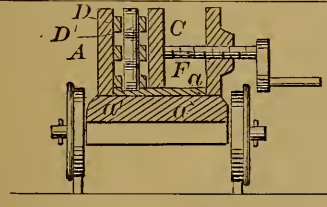


82125—T. S. Kennard—*Invalid Rest.*

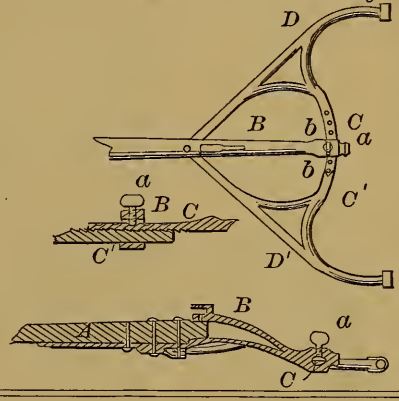


82124—P. Kendrick—*For Blocking Chains.*

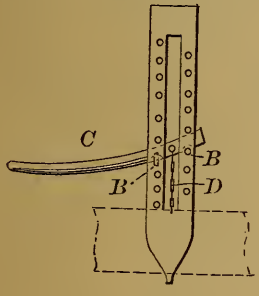




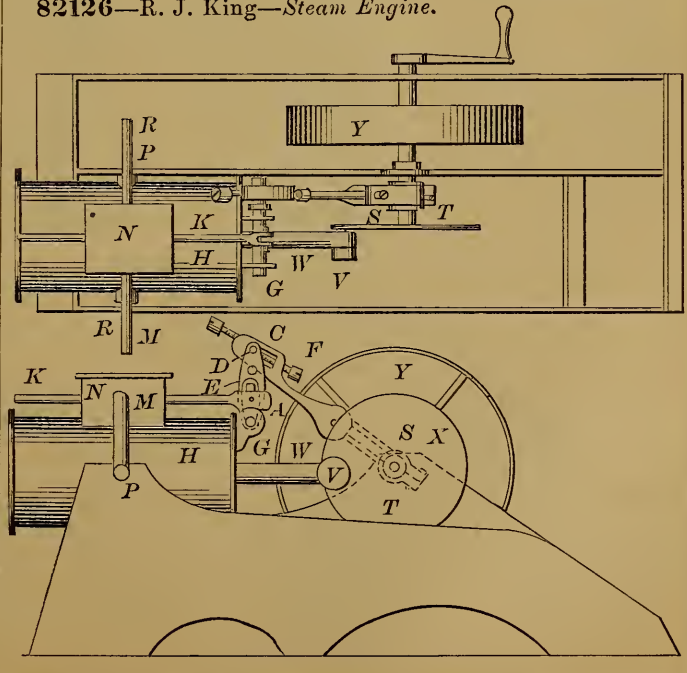
82127—M. A. Koon—*Carriage Pole.*



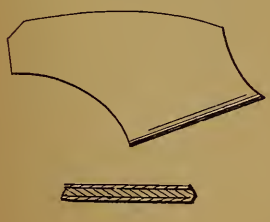
82128—A. Kriebel—*Lifting Machine.*



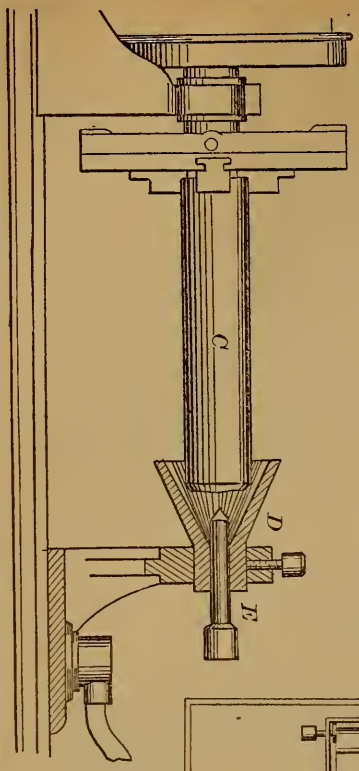
82126—R. J. King—*Steam Engine.*



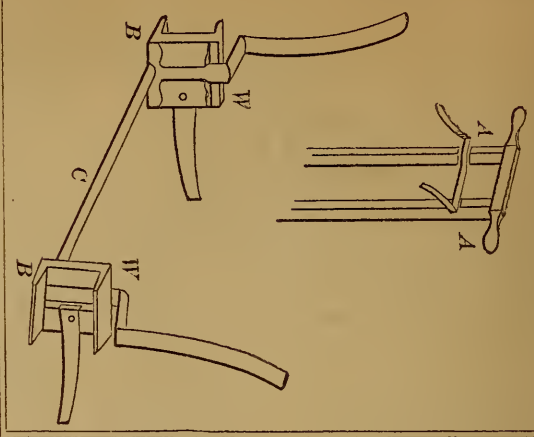
82130—J. Lane—*Plow and Cultivator.*



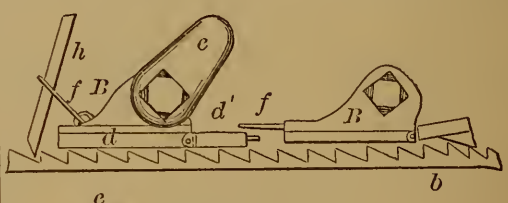
82131—E. E. Lazell—*Centering Device.*



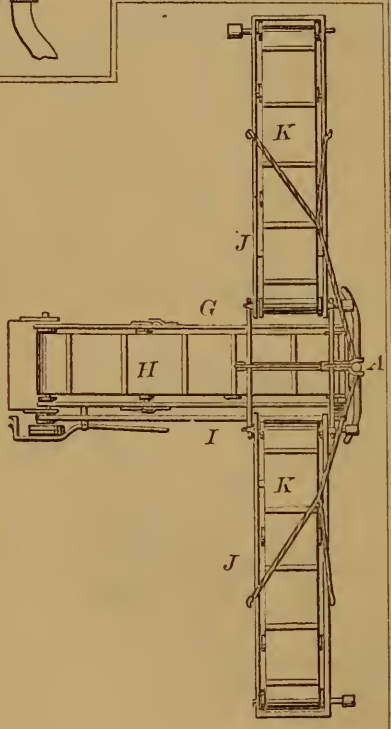
82132—J. S. Lehman—*Bag Holder and Truck.*



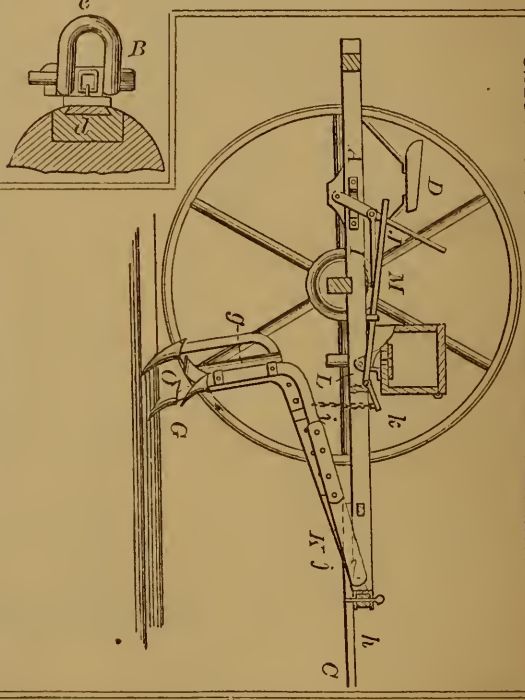
82133—Leighton & Cole—*Out Haul for Booms.*

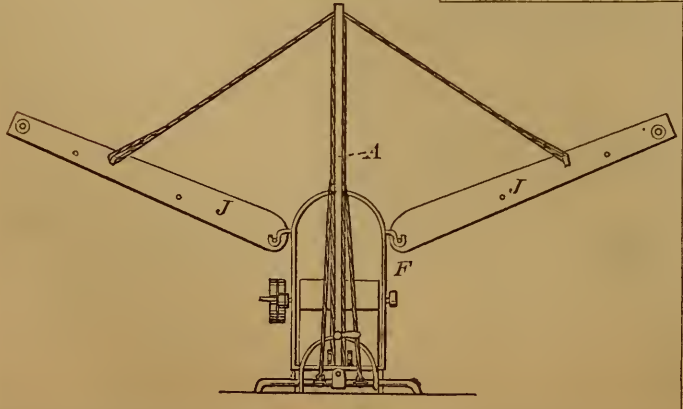


82135—A. W. Lockhart—*For Conducting Grain to Threshing Machines.*



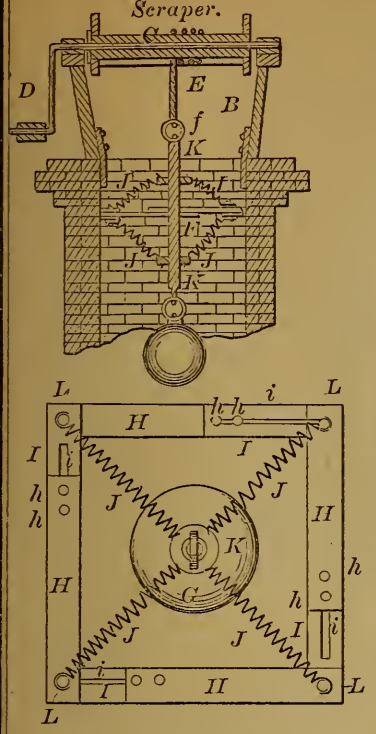
82137—J. S. Mason—*Planter and Cultivator.*



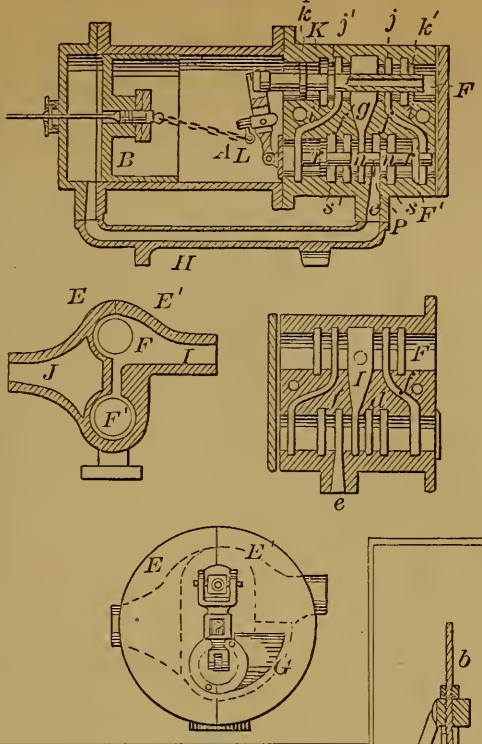


82134—J. J. Levy—*Card.*

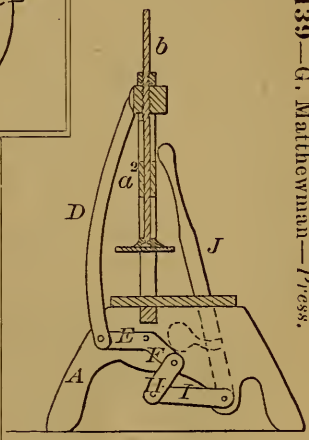
82136—S. K. Luce—*Chimney Scraper.*



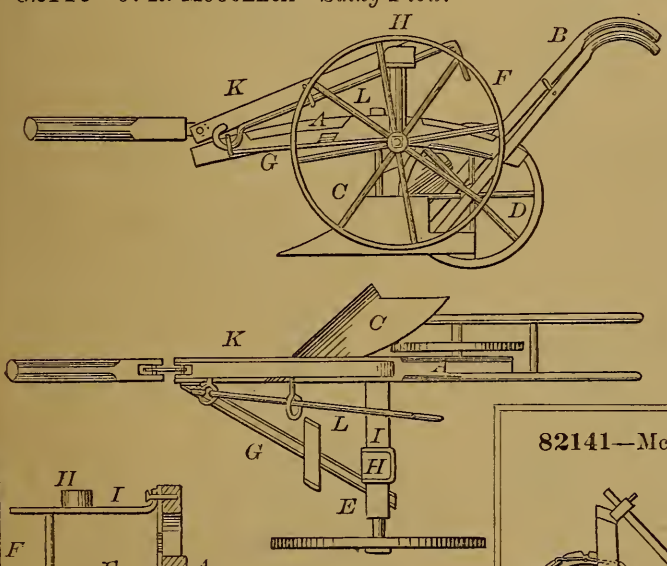
82138—J. Mason—*Liquid Meter.*



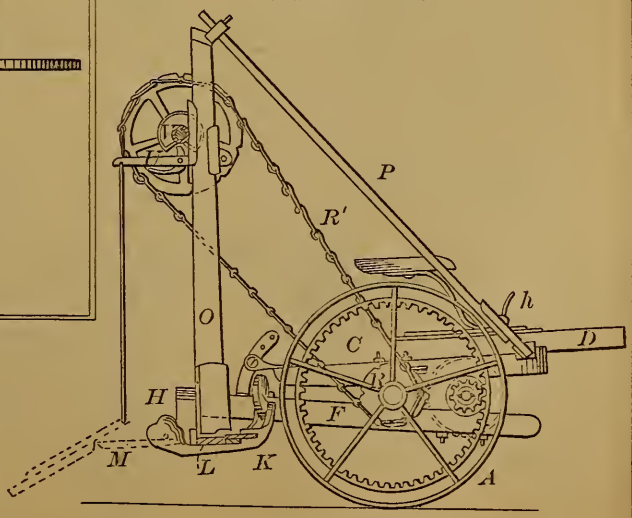
82139—G. Matthewman—*Press.*



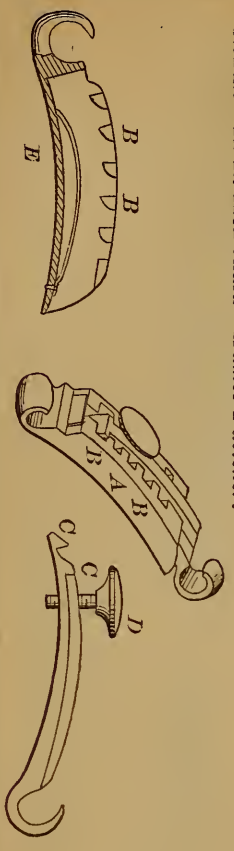
82140—J. R. McConnell—*Sulky Plow.*



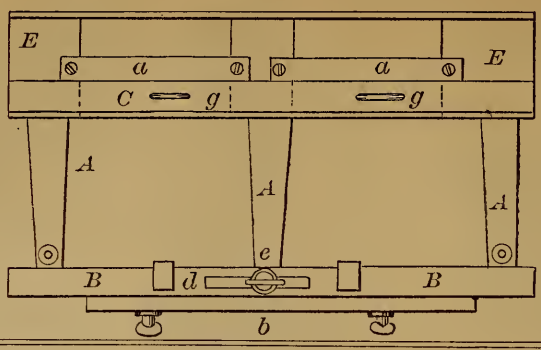
82141—McCormick, Baker & Erpelding—*Harvester Rake.*



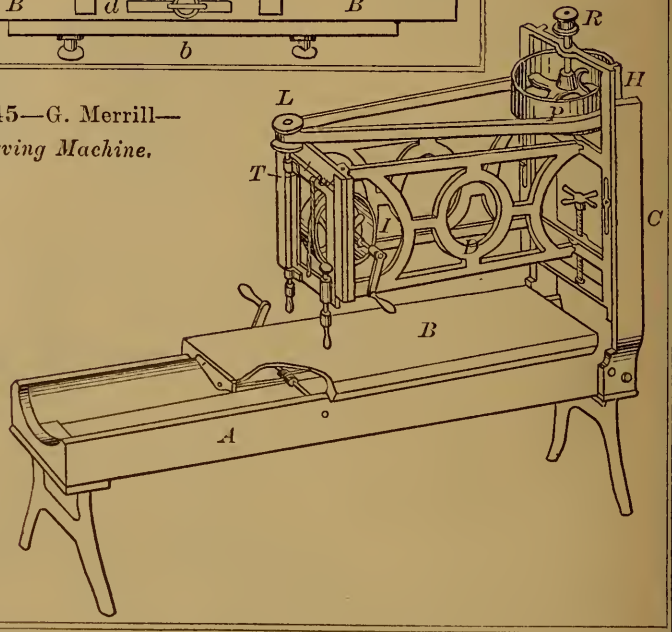
82142—R. R. McDonald—*Hames Fastener.*



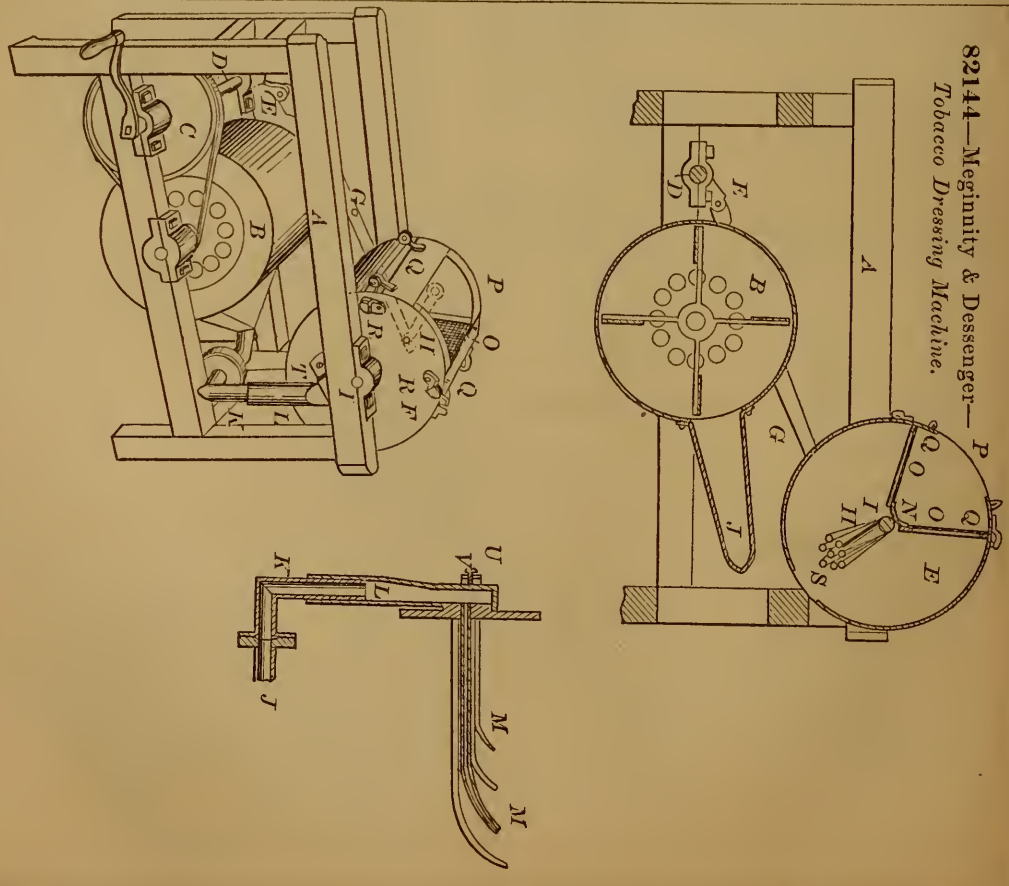
82143—W. McKnight—*Tenoning Machine.*



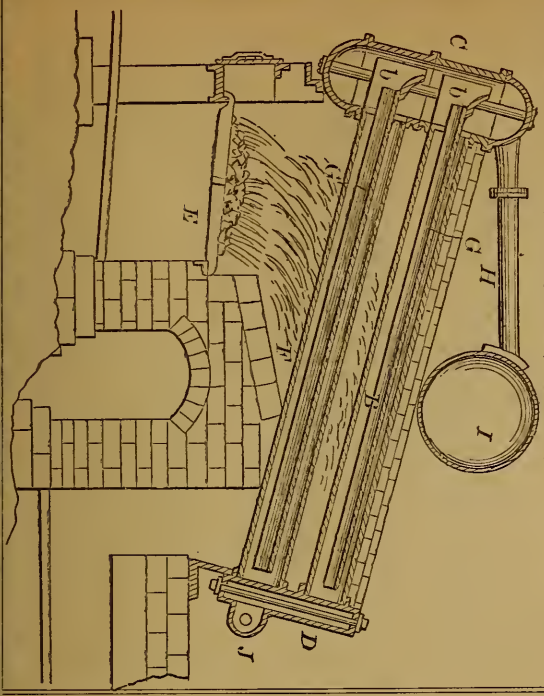
82145—G. Merrill—*Carving Machine.*



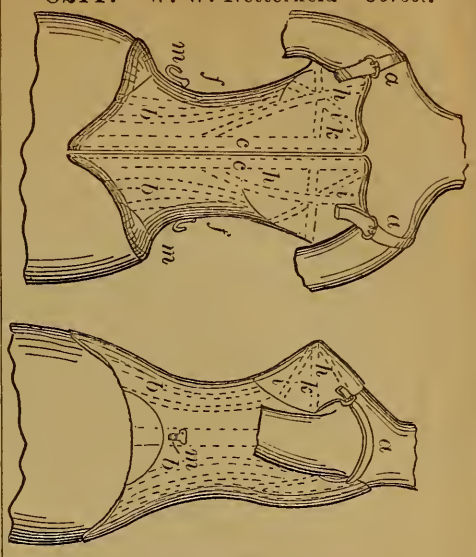
82144—Meginnity & Dessenger—*Tobacco Dressing Machine.*



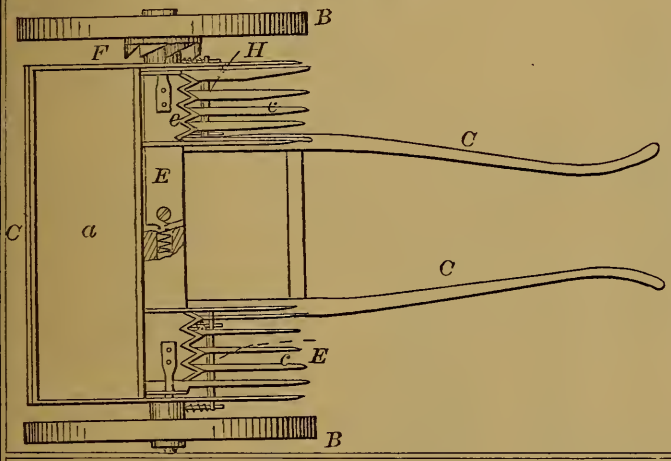
82146—T. H. Müller—*Steam Generator.*



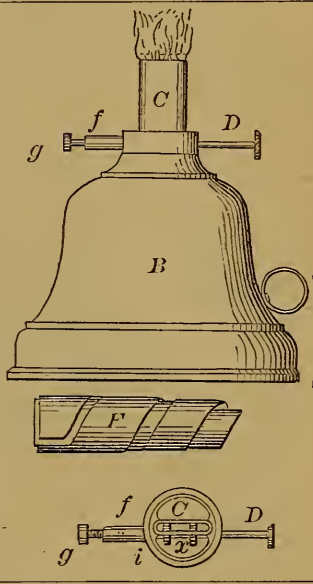
82147—W. W. Netterfield—*Corset.*



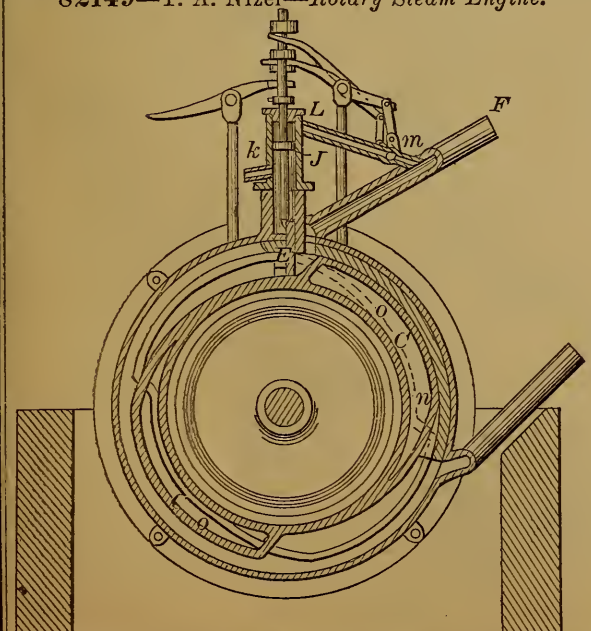
82148—N. Newman—*Corn Harvester.*

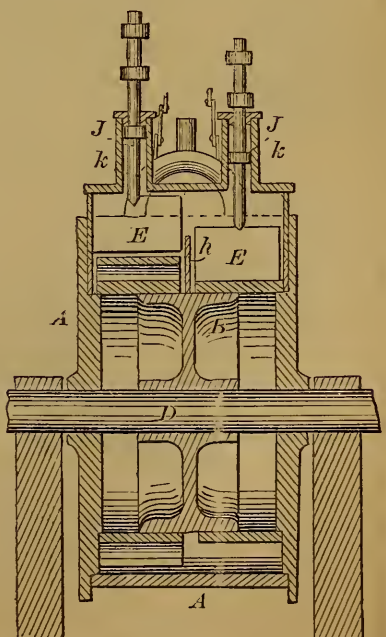


82150—J. E. Noyes—*Lamp.*

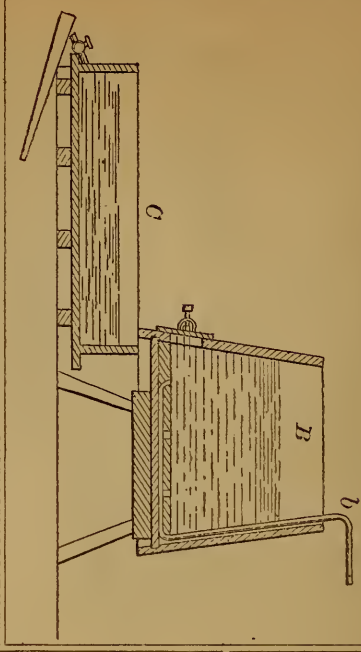


82149—T. A. Nizer—*Rotary Steam Engine.*

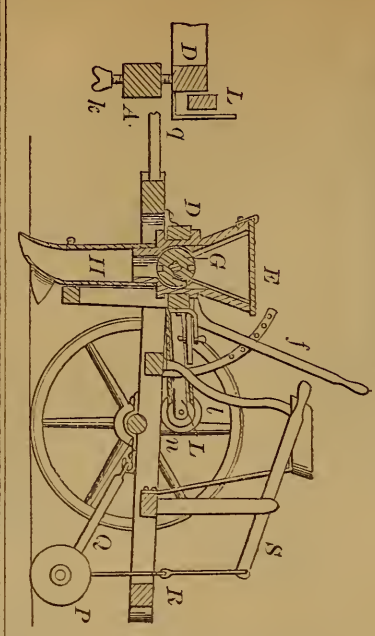




82154—Page & Krausse—*Preparing Sulphate of Baryte.*

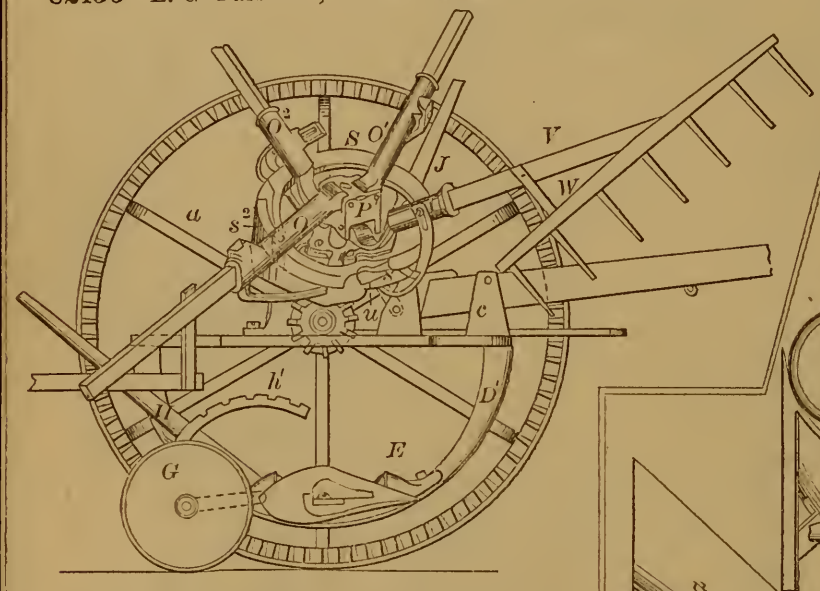


82153—R. F. Osgood—*Seed Planter.*

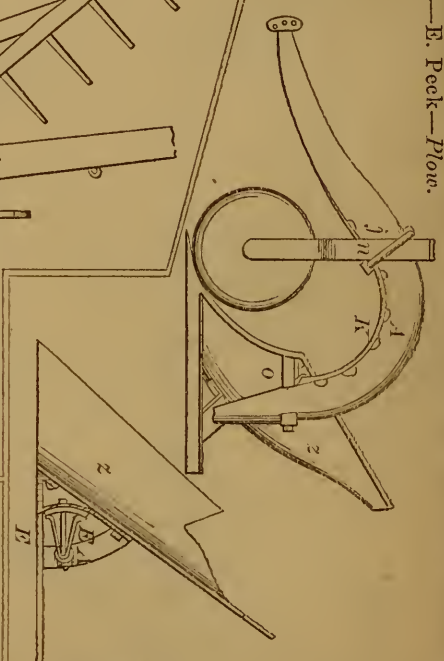


82152—J. Offineer—*Hay Knife.*

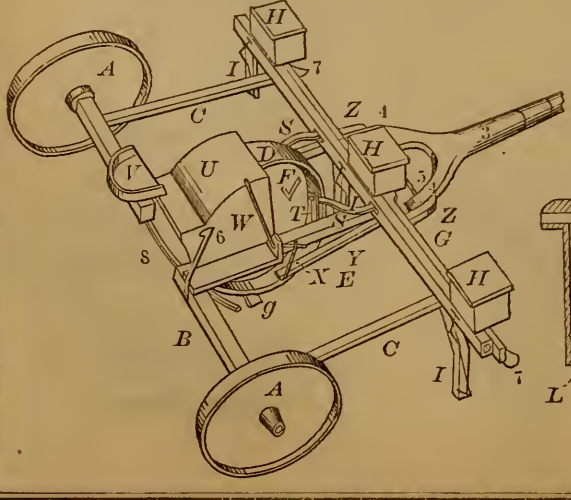
82156—E. G Passmore, Jr.—*Harvester.*



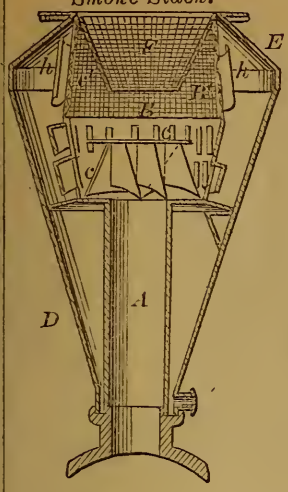
82157—E. Peck—*Plow.*



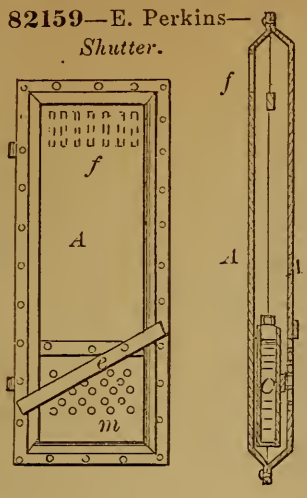
82155—G. F. Partridge—*Corn Planter.*



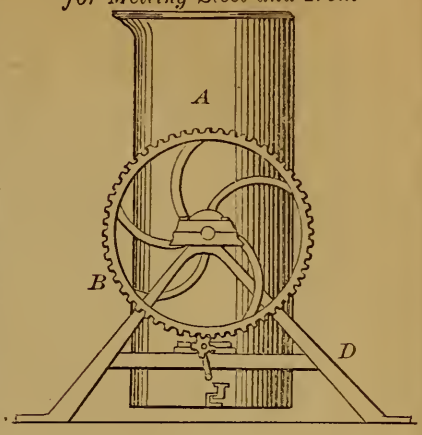
82158—T. P. Peck—*Smoke Stack.*



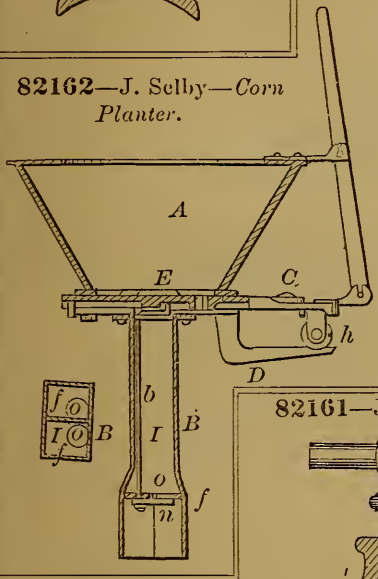
82159—E. Perkins—*Shutter.*



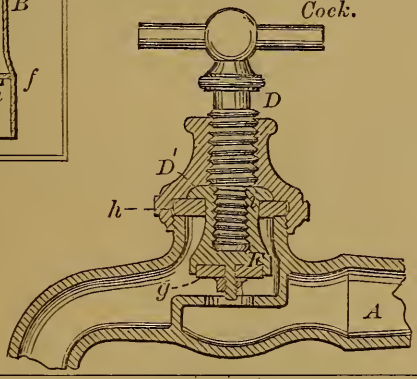
82160—E. R. Playle—*Furnace for Melting Steel and Iron.*



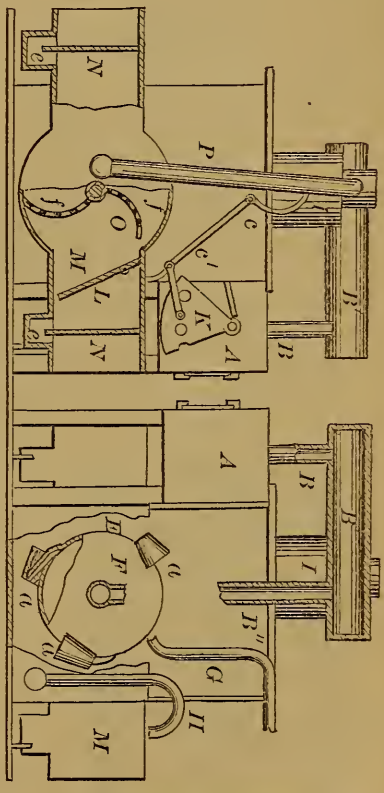
82162—J. Selby—*Corn Planter.*

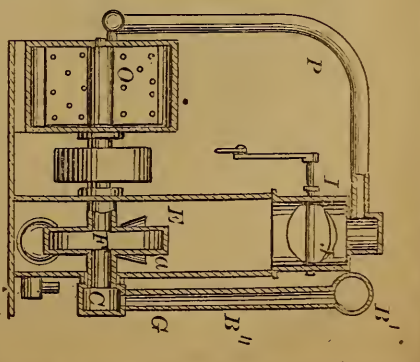


82161—J. Regester—*Stop Cock.*

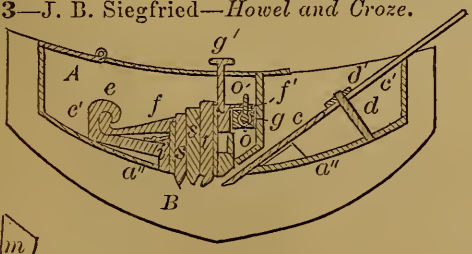


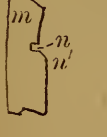
82164—E. Skelly—*For Impregnating Liquids with Sulphurous Acid Gas.*

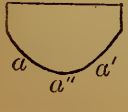


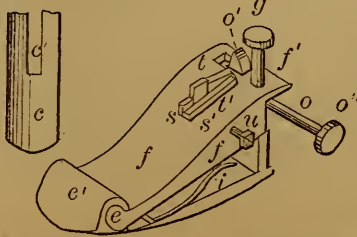


82163—J. B. Siegfried—*Howel and Croze.*

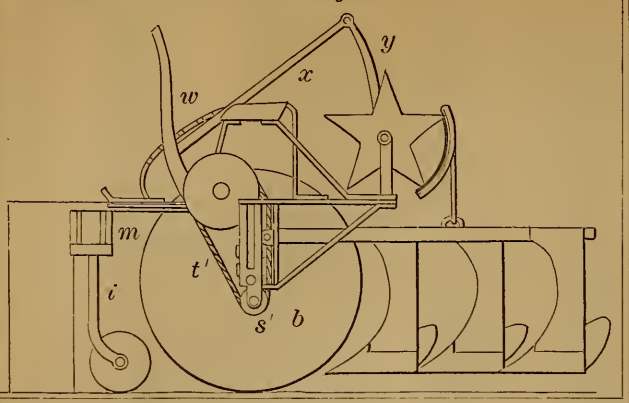




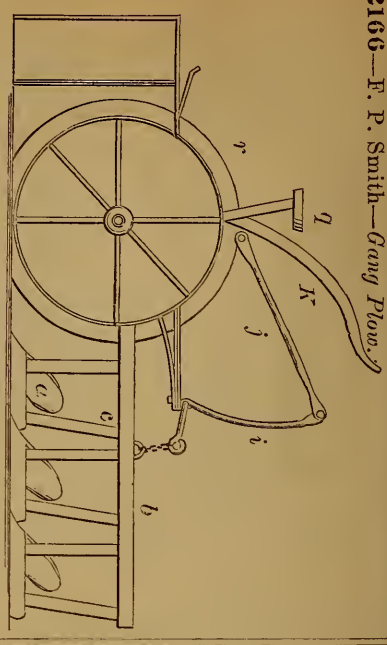




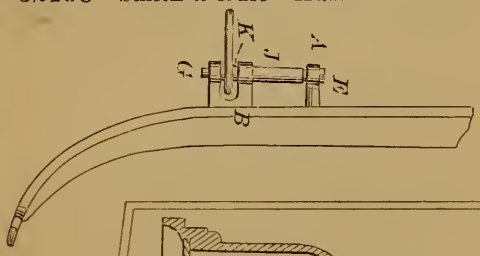
82165—F. P. Smith—*Gang Plow.*

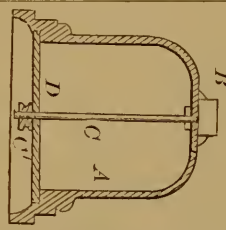


82166—F. P. Smith—*Gang Plow.*



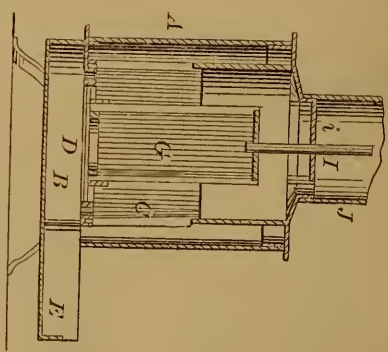
82168—Smith & Burr—*Hames.*



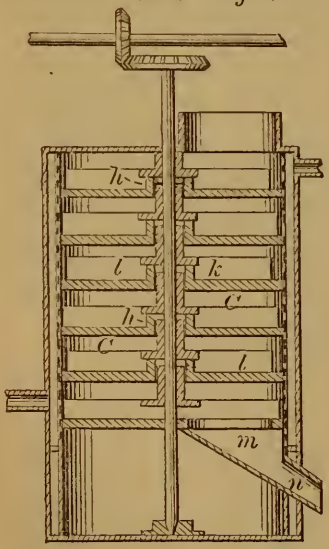


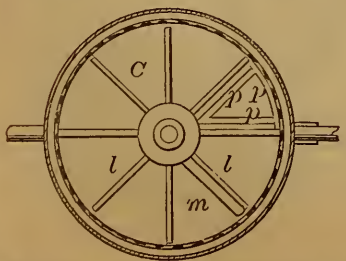
82167—Smith & Emery—*Twine Box*

82169—H. D. Snyder—*Stove.*

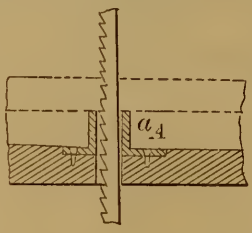


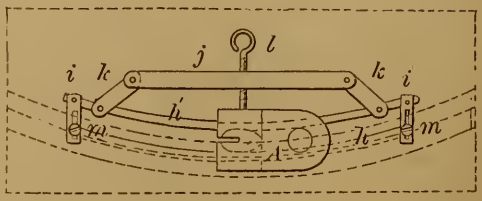
82170—Spendelow & Heneage—*Grain Dryer.*

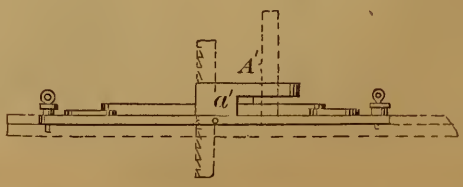




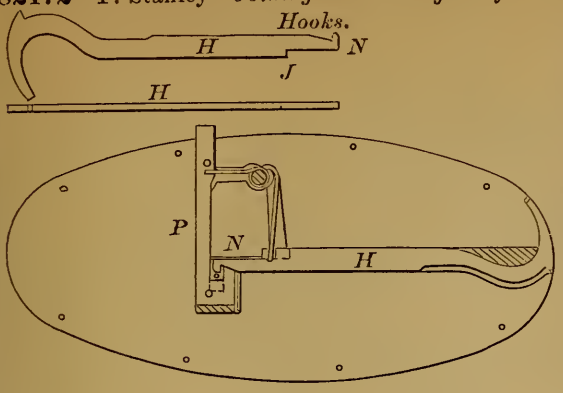
82171—G. W. Staats—*Guide for Scroll Saws.*



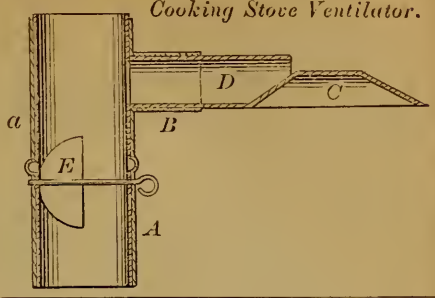




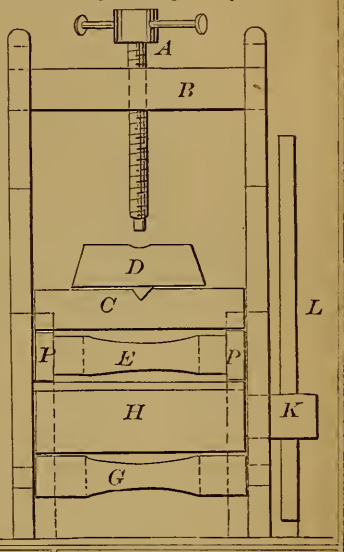
82172—F. Stanley—*Joining and Fitting Hoof Hooks.*



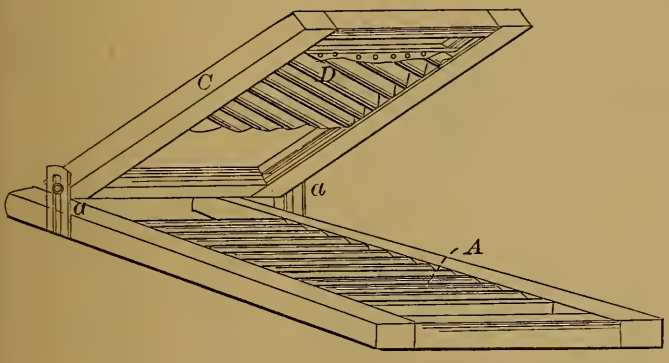
82173—C. & A. Stoddard—*Cooking Stove Ventilator.*



82174—Stratton & Wilson—*Cheese Press.*

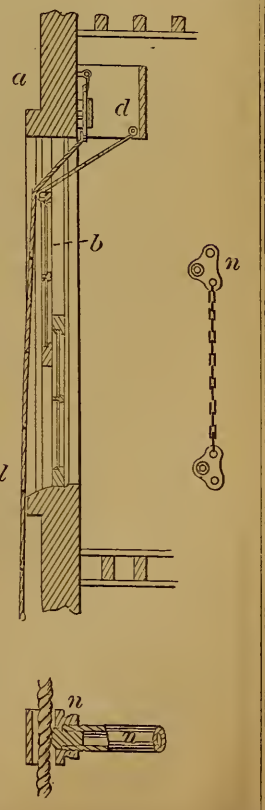


82175—H. B. Straut—*Wash Board.*

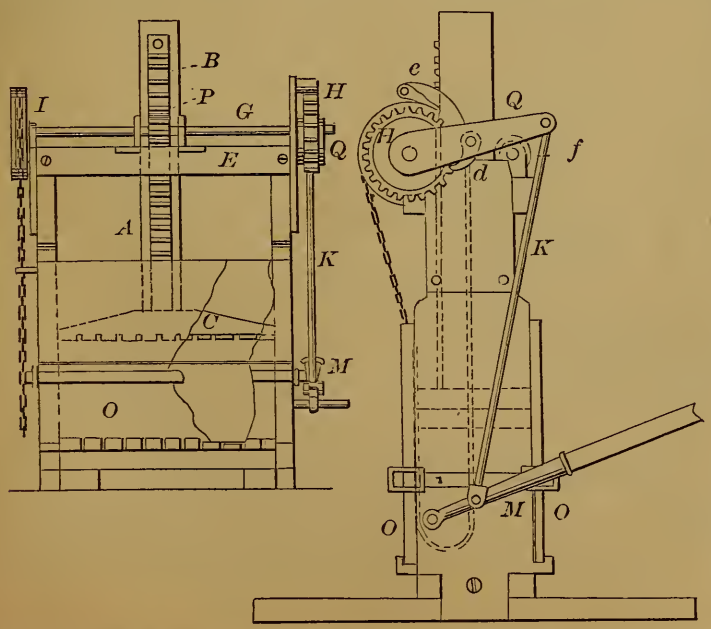


82177—G. Tanner—*Fruit Gatherer.*

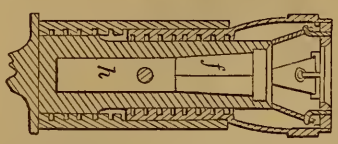
82176—Swalm & Schmitt—*Fire Escape.*

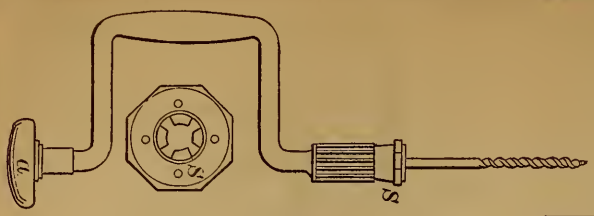


82178—Tappey, Lumsden & Steel—*Cotton Press.*

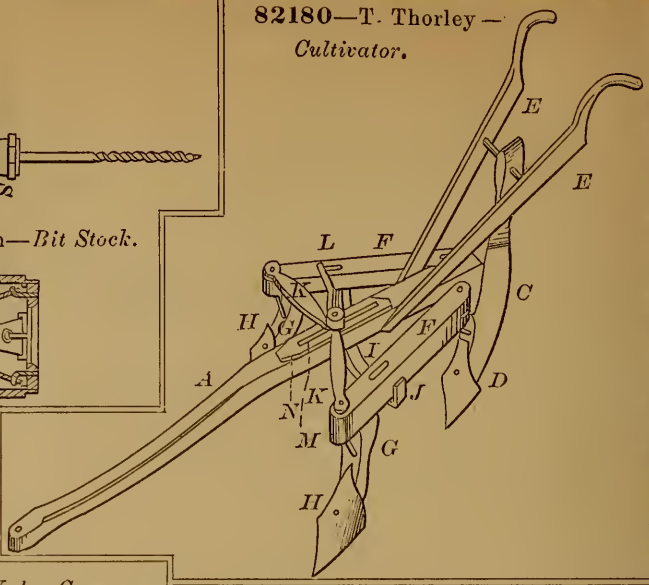


82179—J. W & F. M. Thompson—*Bit Stock.*

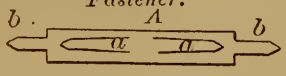




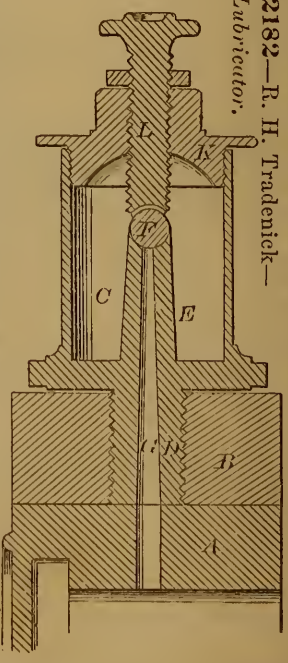
82180—T. Thorley—*Cultivator.*



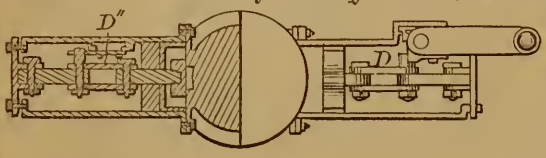
82181—W. M. Tileston—*Paper Fastener.*

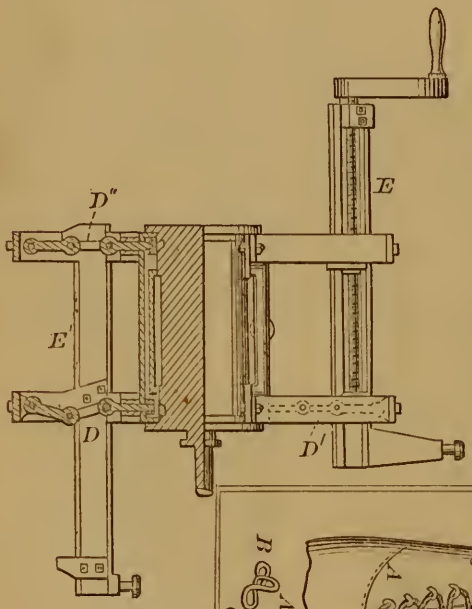


82182—R. H. Tradenick—*Lubricator.*



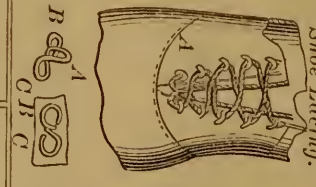
82184—C. W. Wailey—*Cut-off Valve Gear.*





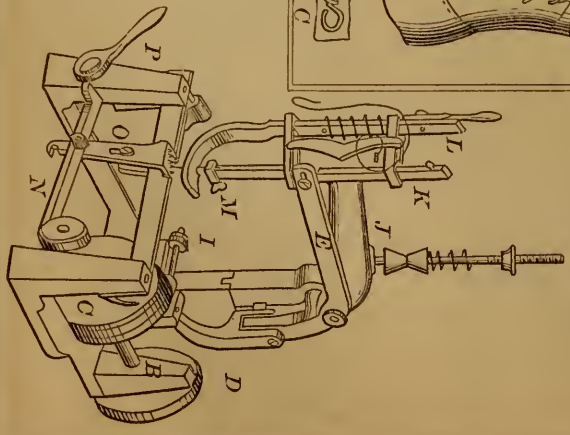
82187—Westland & Allen—*Kitchen Implement.*

82188—M. White—*Shoe Lacing.*

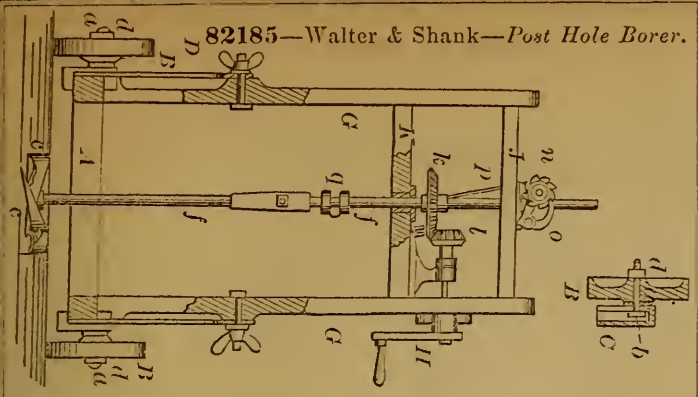


82186—E. G. Warner—*Fence.*

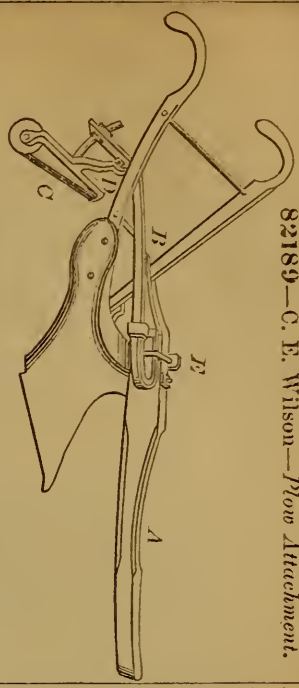
82183—J. D. Vanduzer—*Sewing Machine.*



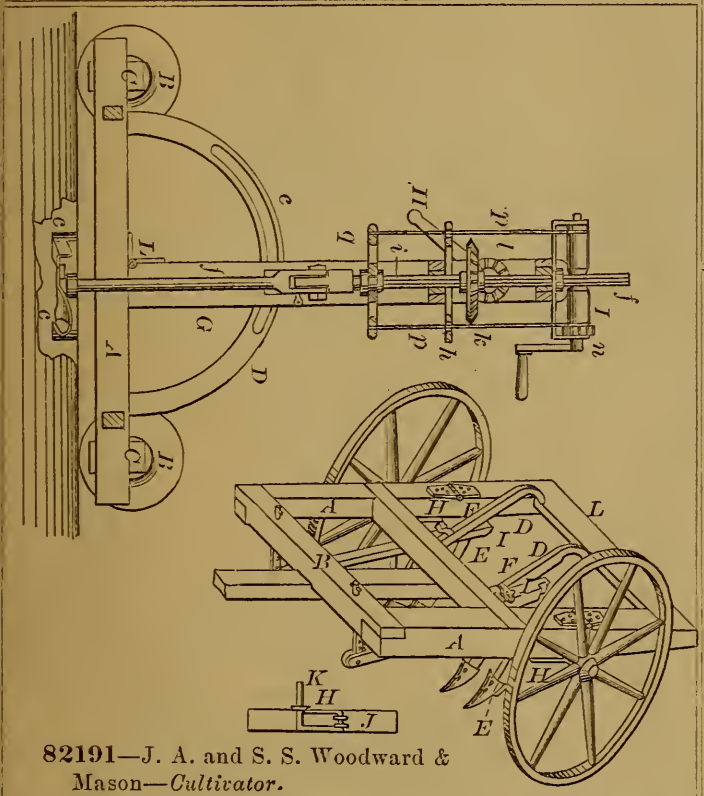
82185—Walter & Shank—*Post Hole Borer.*



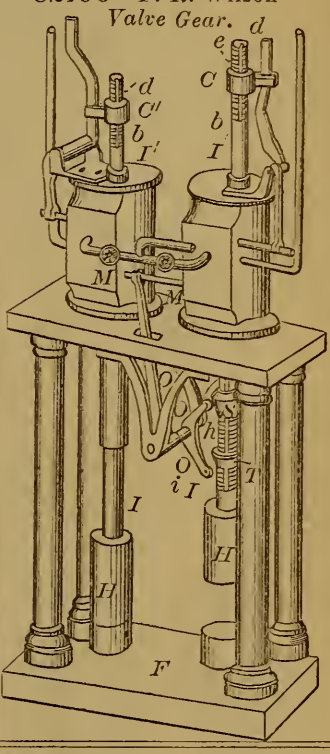
82189—C. E. Wilson—*Plow Attachment.*



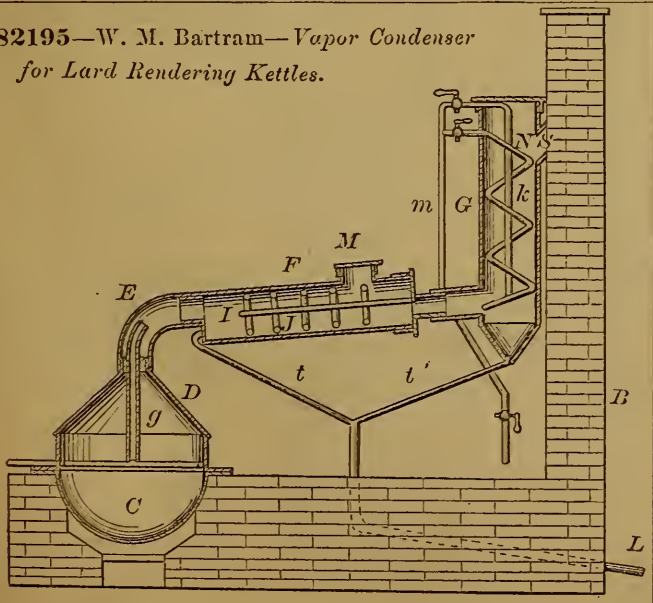
82191—J. A. and S. S. Woodward & Mason—*Cultivator.*



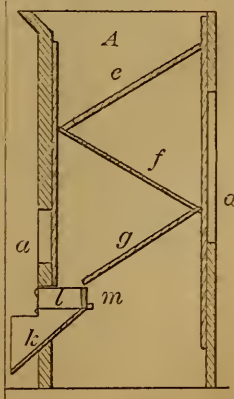
82190—F. R. Wilson—*Valve Gear.*



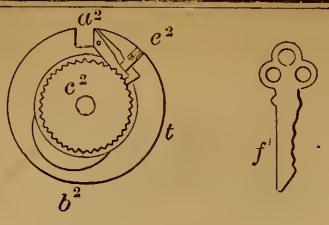
82195—W. M. Bartram—*Vapor Condenser for Lard Rendering Kettles.*

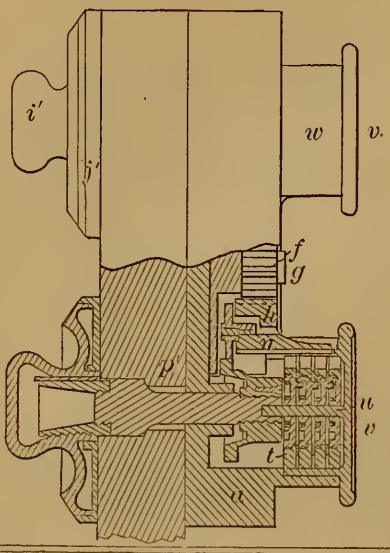


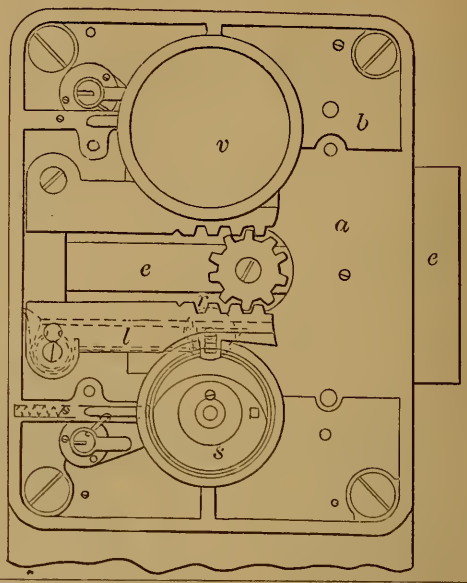
82193—J. Armstrong—*For Tolling Grain.*



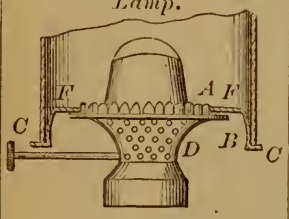
82192—L. Yale, Jr.—*Permutation Lock.*





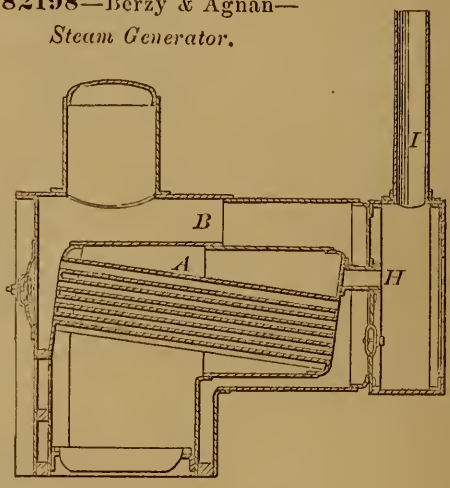


82196—J. Bellerjeau—*Lamp.*

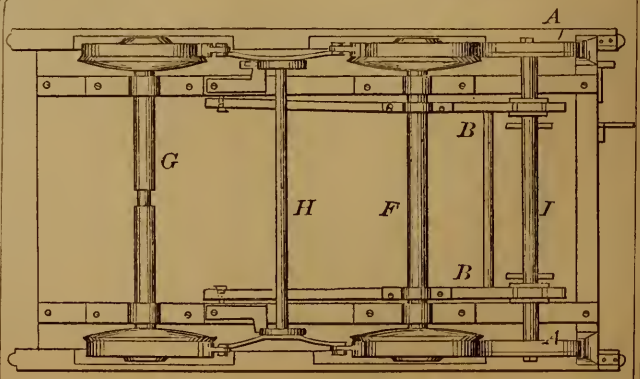


82197—P. R. Bennett, Jr.—*Watch.*

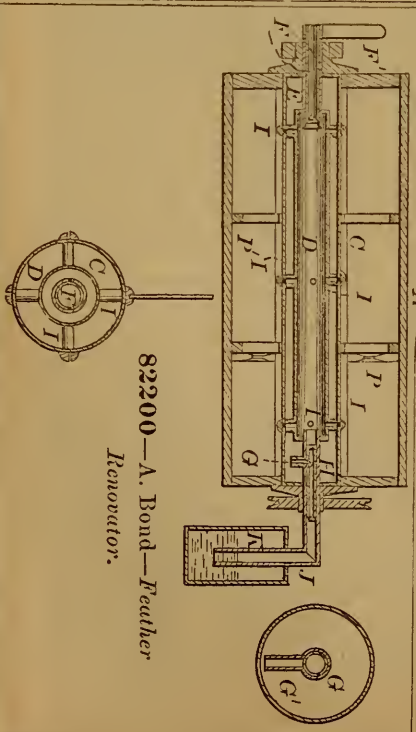
82198—Berzy & Agnan—*Steam Generator.*



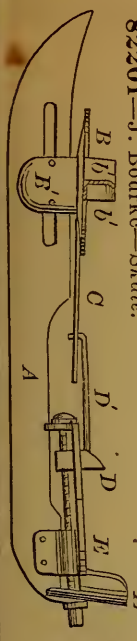
82199—H. S. Blood—*Railway Safety Attachment.*



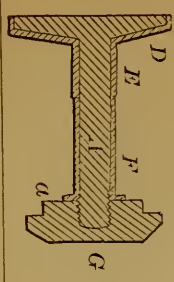
82200—A. Bond—*Feather Renovator.*



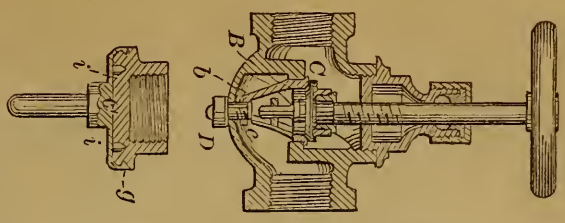
82201—J. Bourke—*Skate.*



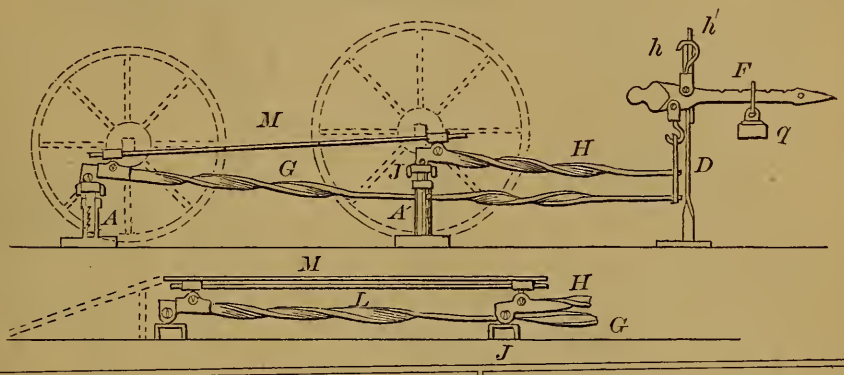
82203—F. A. Bradley—*Carriage Top Prop.*



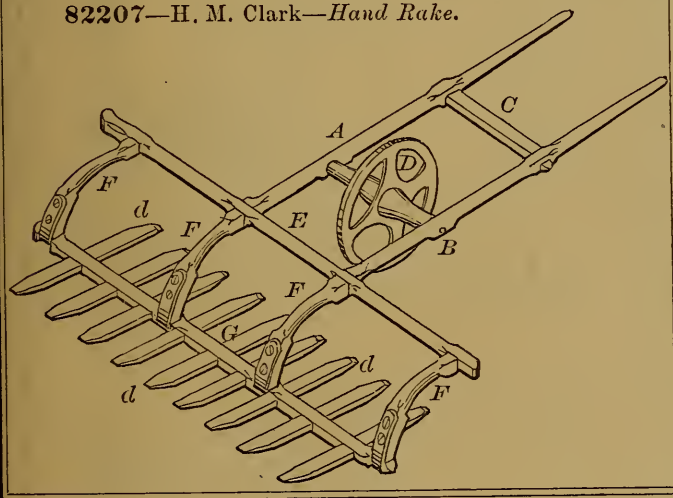
82206—W. Chesley—*Globe Valve.*



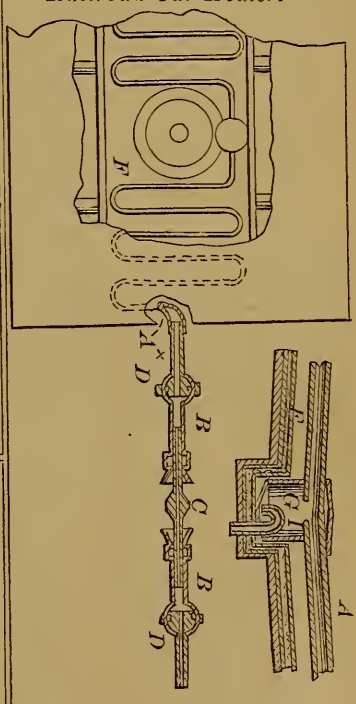
82204—H. K. Bugbee—*Platform Scale.*

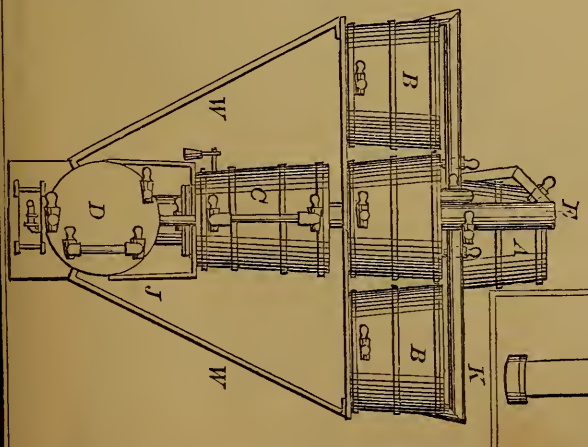


82207—H. M. Clark—*Hand Rake.*



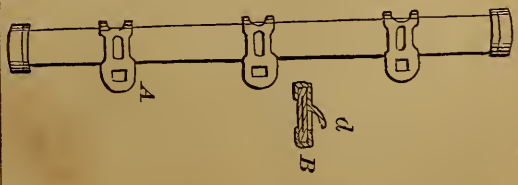
82210—W. B. Farwell—*Railroad Car Heater.*



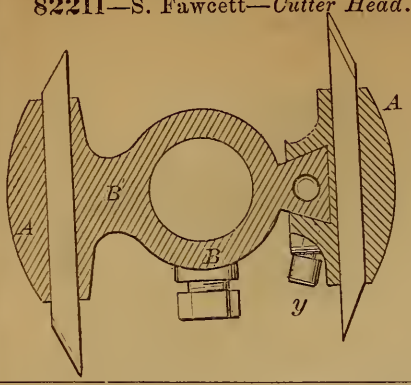


82208—P. Conday—*For Brewing Malt Liquor.*

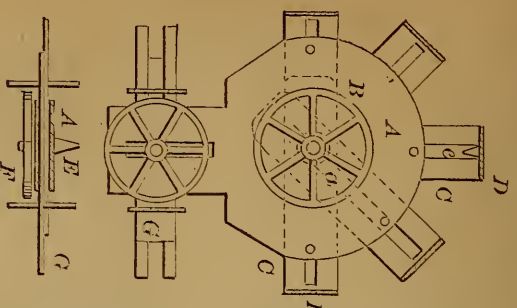
82209—T. B. De Forest—*Corset Stay.*



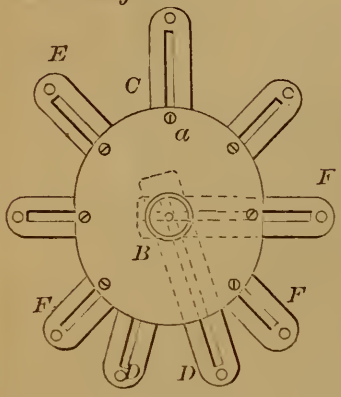
82211—S. Fawcett—*Cutter Head.*



82213—H. B. Ferren—*For Measuring Horses' Feet.*

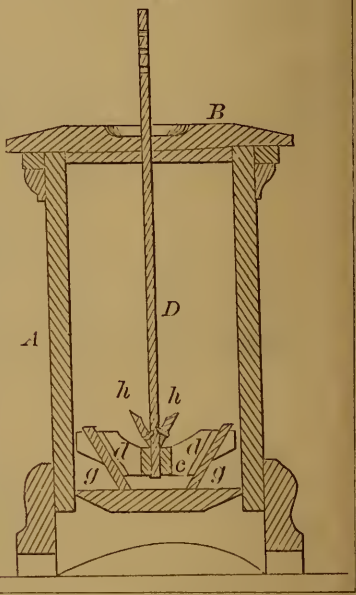


82214—H. B. Ferren—*For Measuring Horses' Feet.*

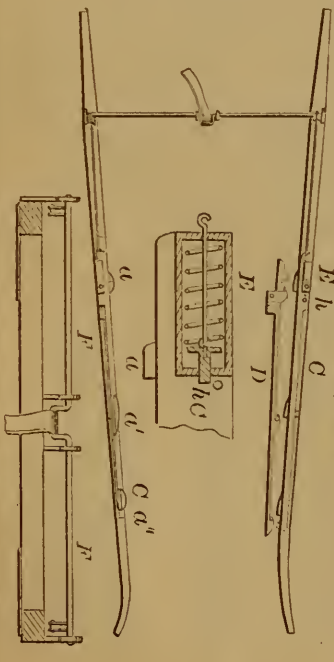


82215—H. B. Ferren—*For Attaching Shoes to Horses' Feet.*

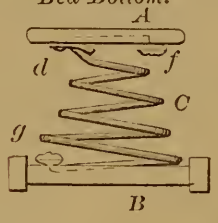
82216—E. H. Funk—*Churn Dasher.*



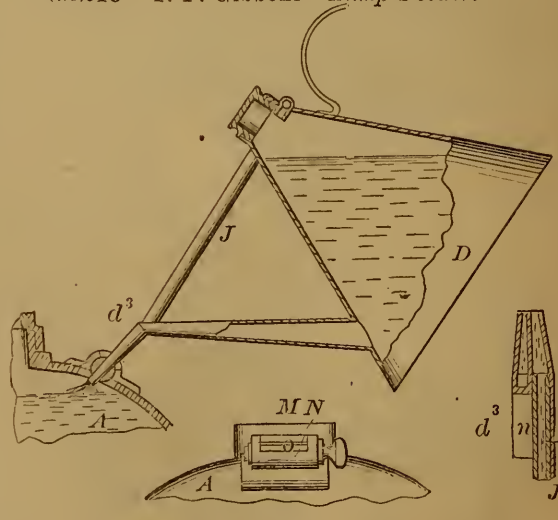
82217—G. Gabriel—*For Detaching Horses from Carriages.*



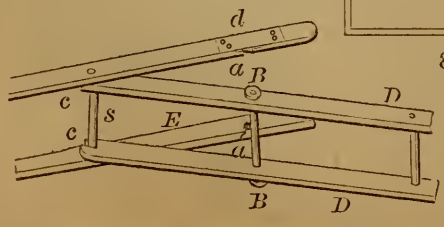
82218—G. L. Gerard—*Bed Bottom.*



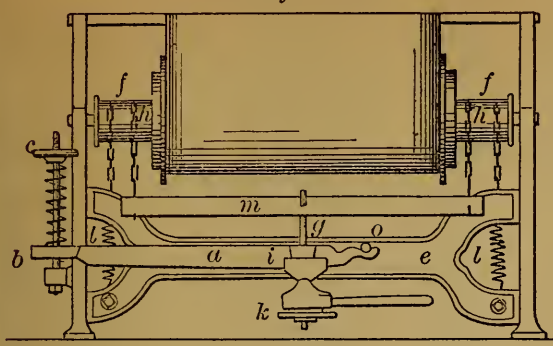
82219—T. P. Gibbons—*Lamp Feeder.*



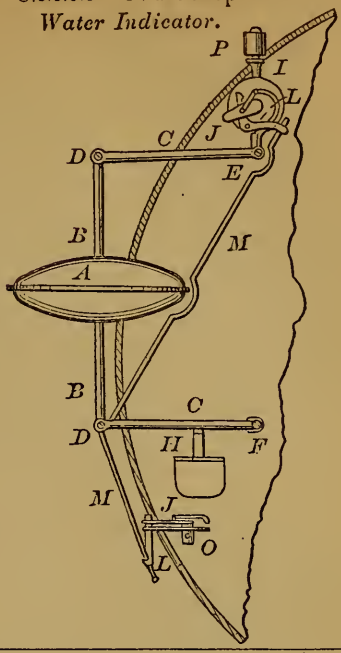
82221—S. E. Hewes—*Step Ladder Joint.*



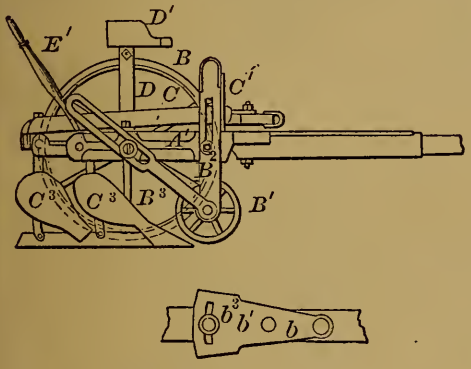
82220—J. J. & E. Harrison—*Brake for Yarn Beam of Looms.*

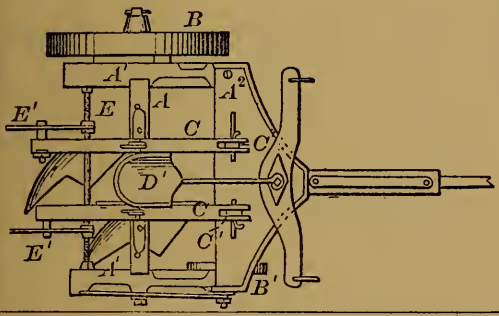


82222—G. M. Hopkins—*Low Water Indicator.*

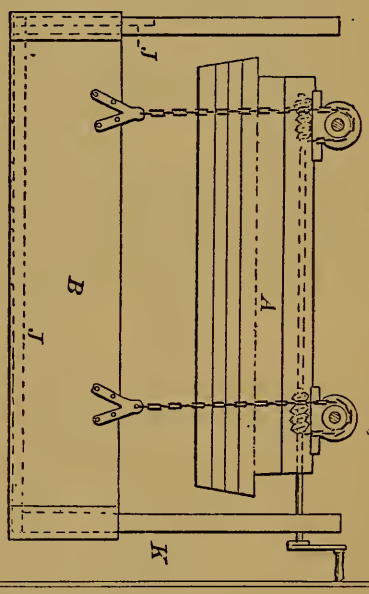


82223—Horn & Mancy—*Gang Plow.*

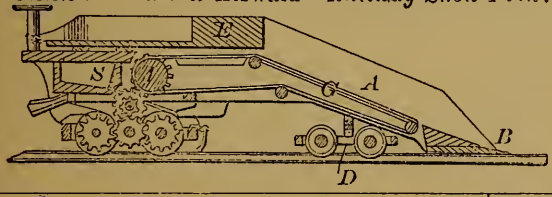




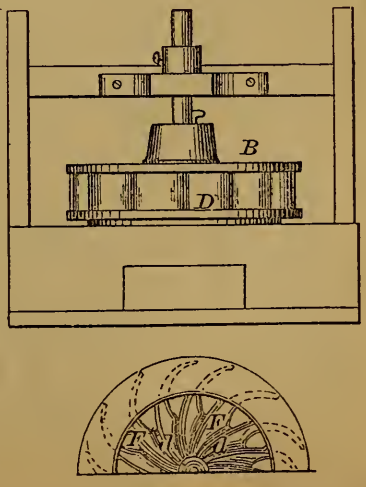
82224—Howell & Smith—*For Filling Marshes.*



82226—Jones & Eiswald—*Railway Snow Plow.*

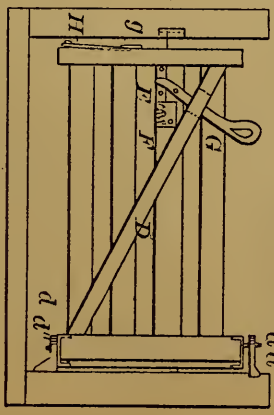


82225—J. Hoyt—*Water Wheel.*

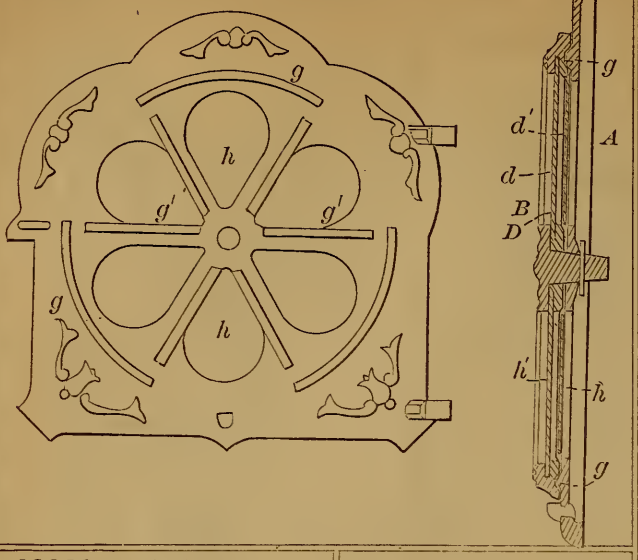


82227—T. Kennedy—*Belt Fastening.*

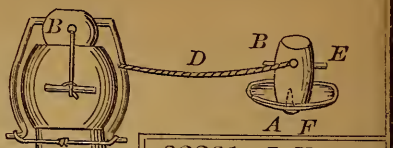
82226—J. H. King—*Gate.*



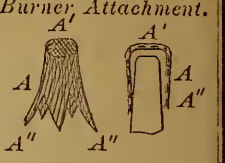
82228—J. H. Keyser—*Damper.*



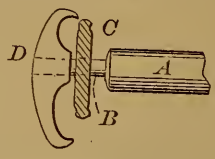
82230—J. Klee—*Bottle Stopper.*



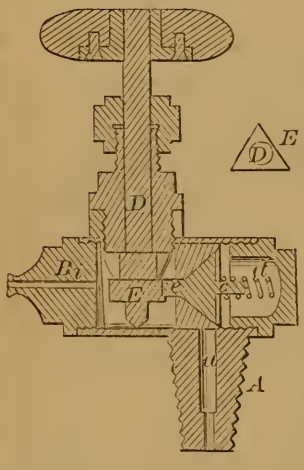
82231—J. Kopp—*Burner Attachment.*



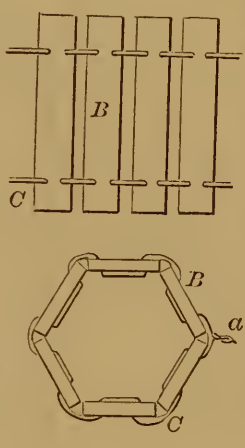
82233—M. F. Lanning—*Swivel.*



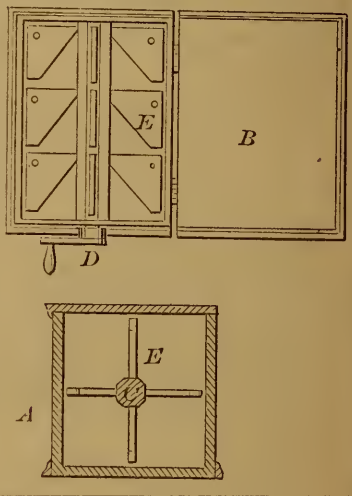
82232—B. F. Kraft—*Faucet.*



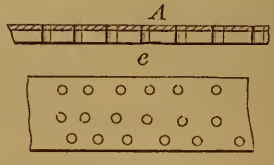
82234—J. W. L. Letherbury—*Tree Box.*



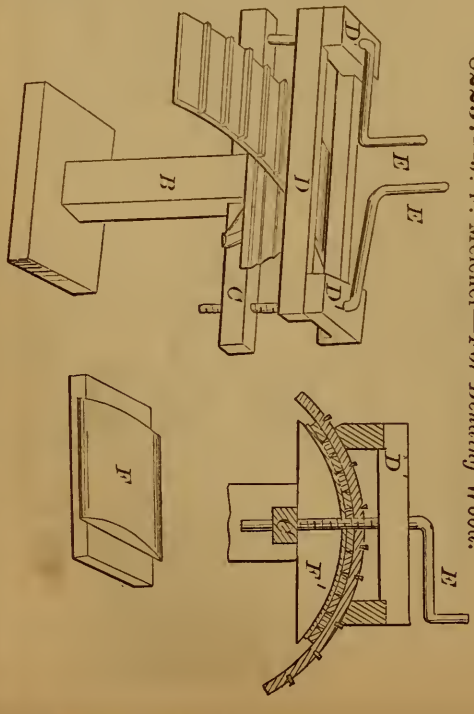
82235—H. Leber—*Churn.*



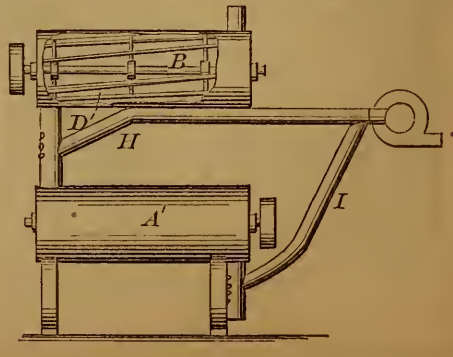
82236—M. Mayall—*Carpet Lining.*



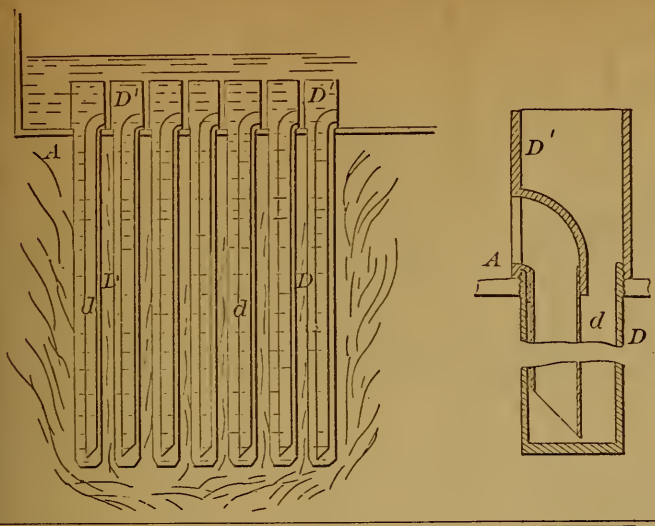
82237—J. F. Melcher—*For Bending Wood.*



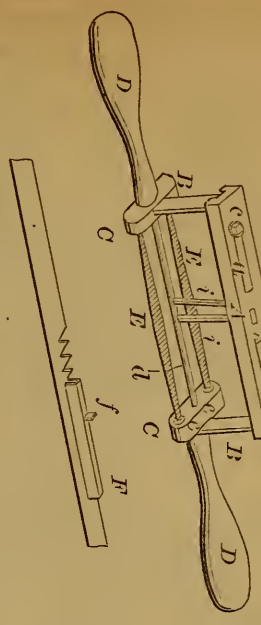
82238—J. G. Moxey—*Debranning Wheat.*



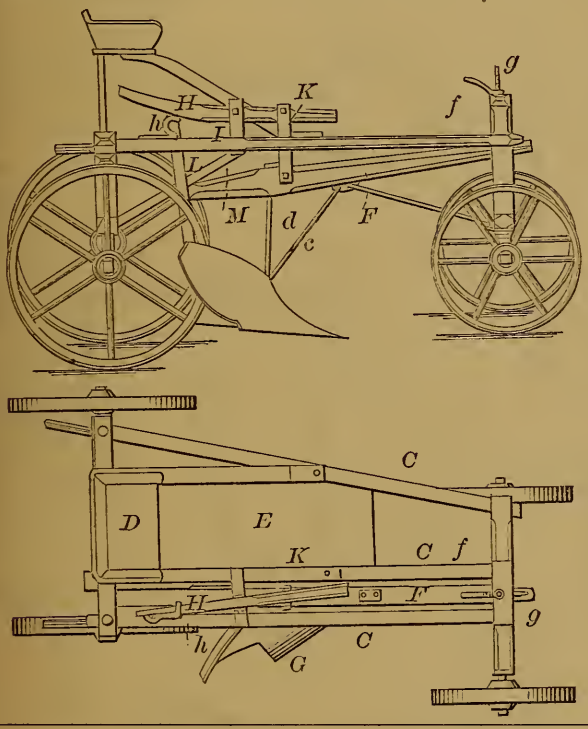
82239—J. Nason—*Steam Generator.*



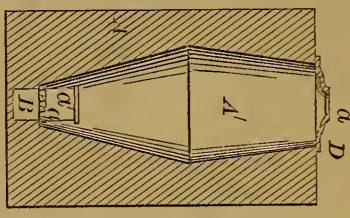
82240—A. M. Newman—*Saw Sharpener.*



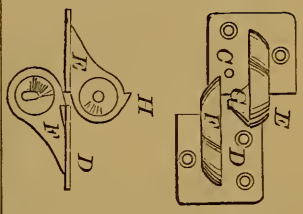
82241—N. B. Norton—*Four Wheel Plow.*



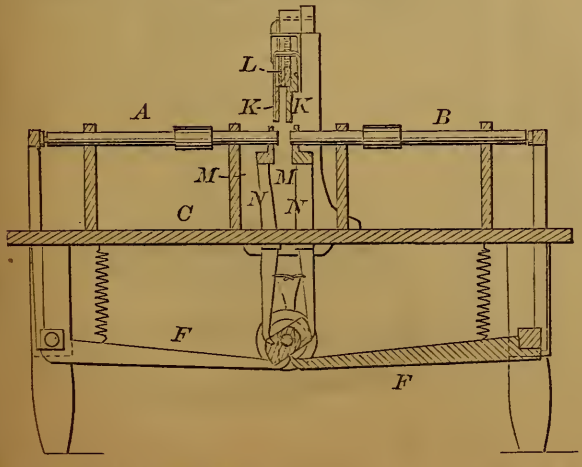
82242—W. C. Pettijohn—*Lime Kiln.*



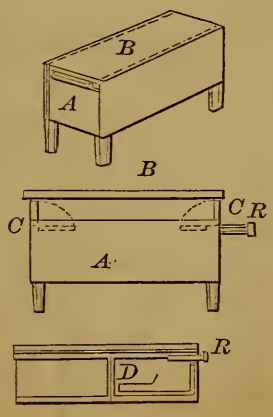
82245—R. B Prindle—*Hinge.*



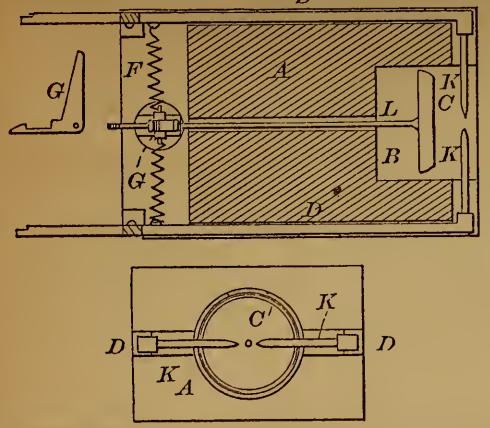
82243—S. G. Pitts—*For Forming Buttons*



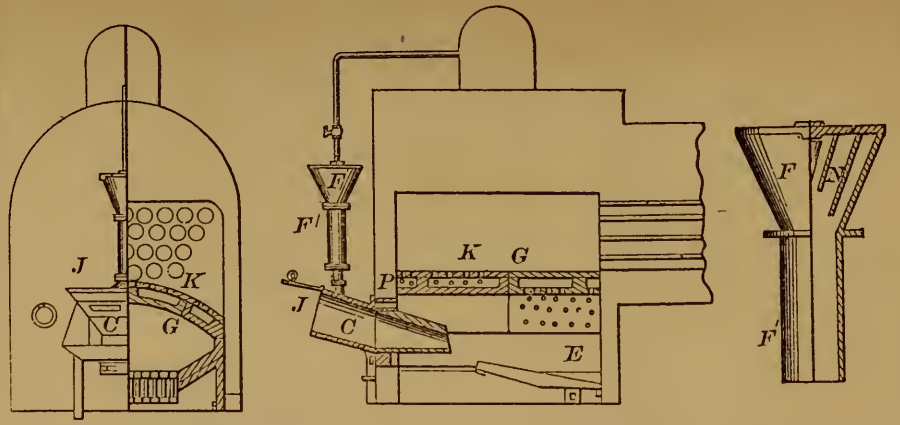
82247—J. C. Putnam—*Table.*



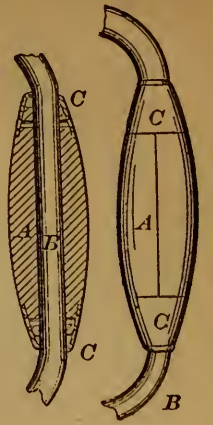
82246—H. W. Prouty—*Animal Trap.*



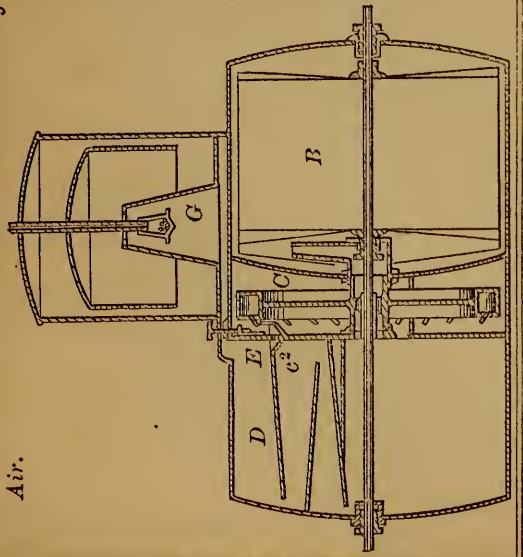
82249—J. T. Rich—*Furnace for Steam Generators.*



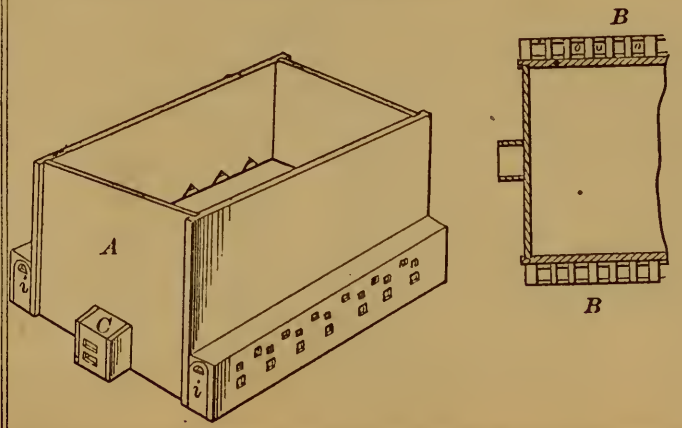
82251—C. B. Rose—*Bit Stock.*



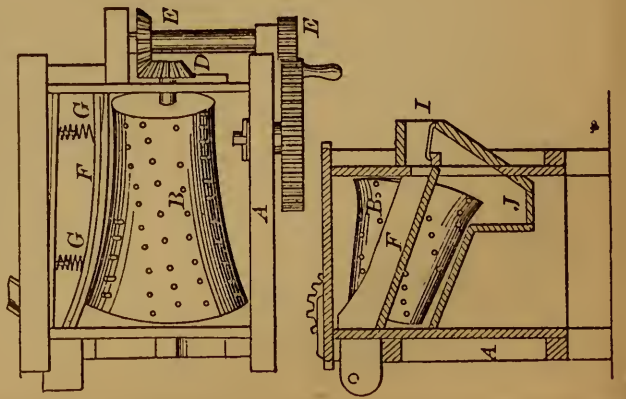
82244—J. T. & R. H. Plass—*For Carburetting Air.*



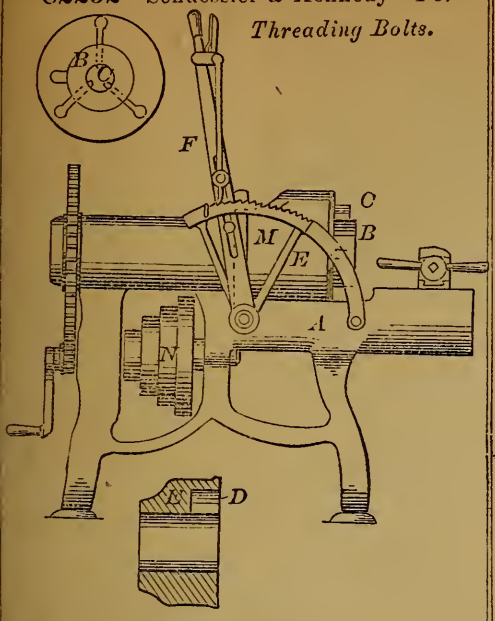
82248—S. D. Rader—*Brick Kiln.*



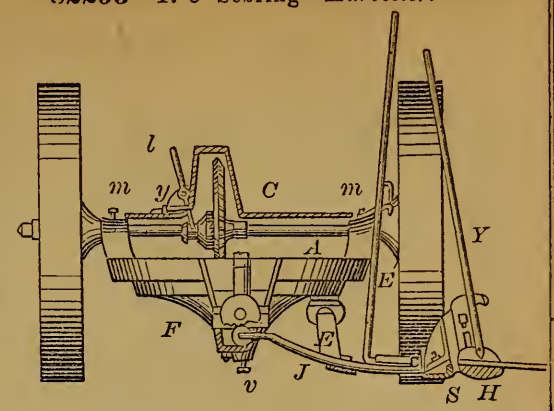
82250—Ripley & Temple—*Corn Sheller and Apple Grinder.*

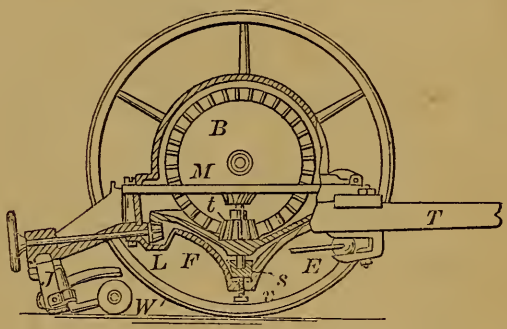


82252—Schuessler & Kennedy—*For Threading Bolts.*

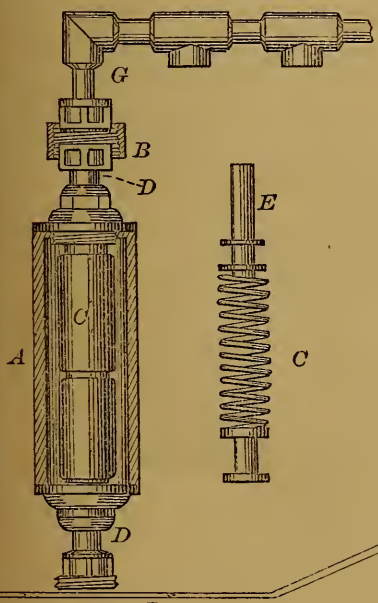


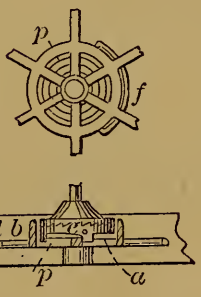
82253—T. C Sebring—*Harvester.*

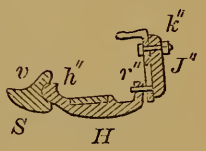




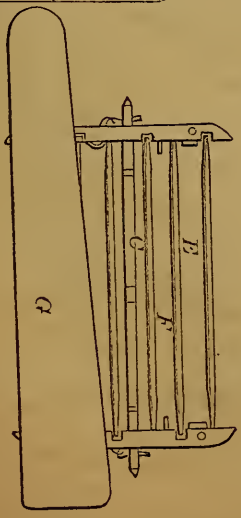
82255—T. Simmons—*Filter.*

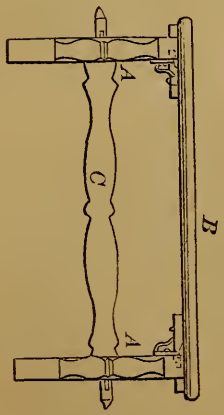


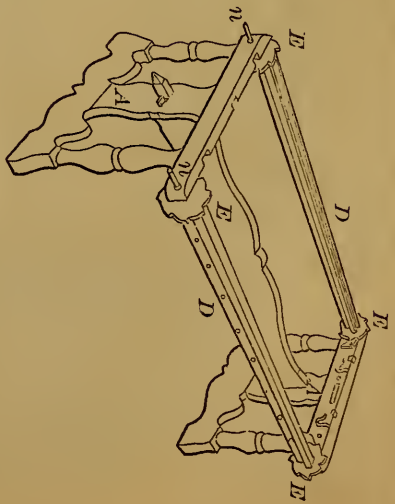




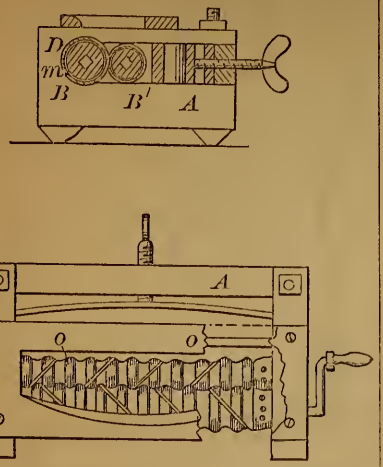
82256—H. L. Stillson—*Clothes Horse.*



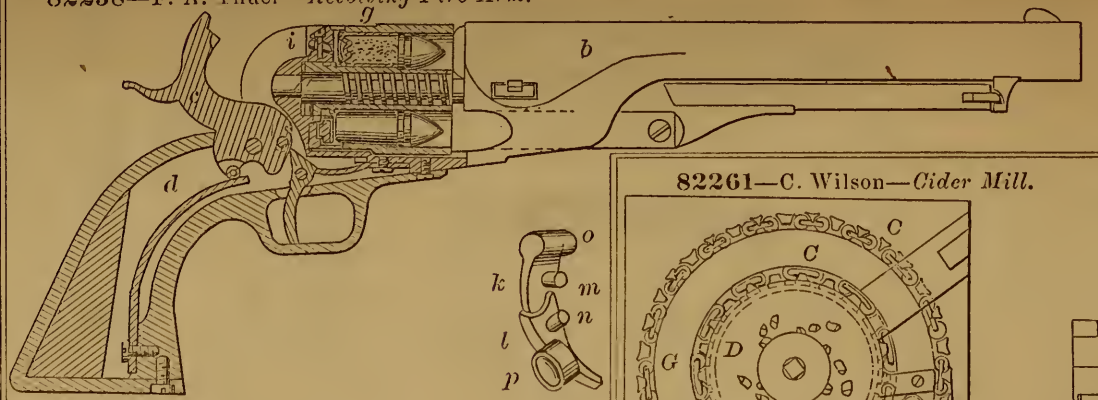




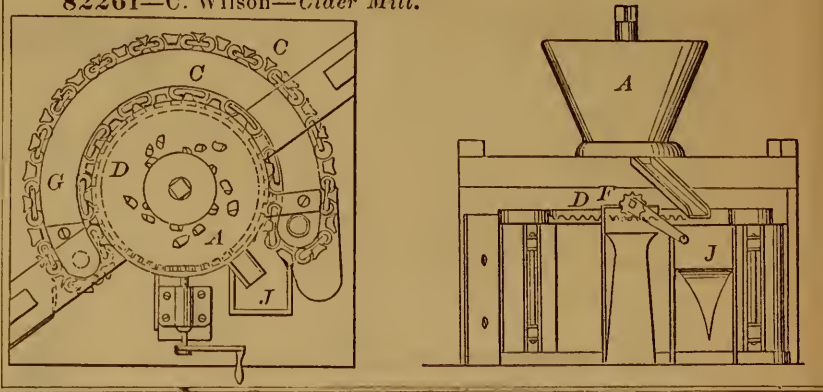
82259—J. Webb—*Clothes Wringer.*



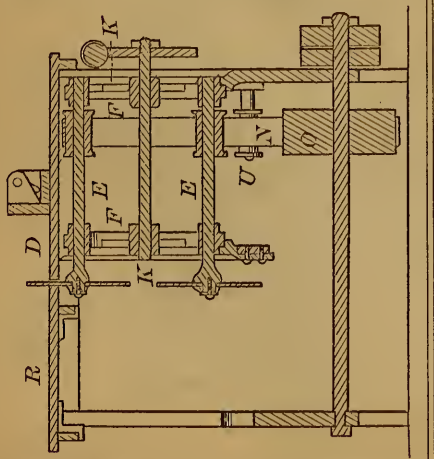
82258—F. A. Thuer—*Revolving Fire Arm.*



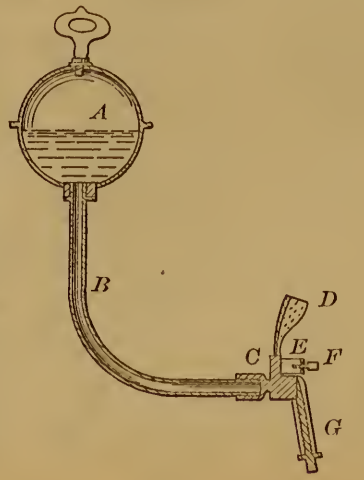
82261—C. Wilson—*Cider Mill.*



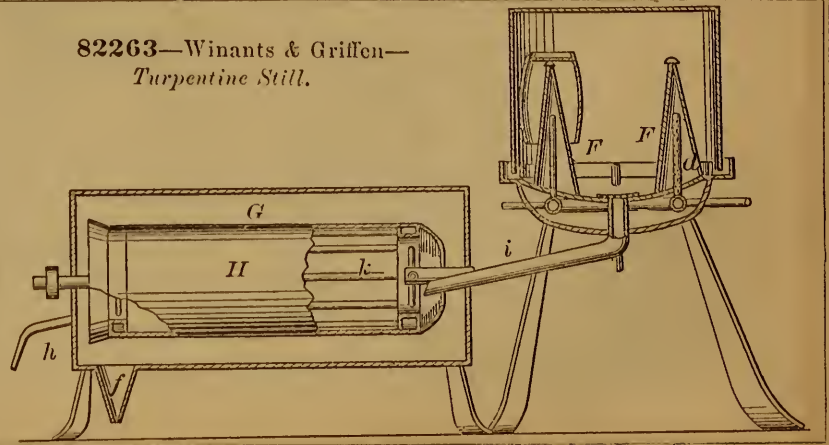
82257—H. Thompson—*Sawing Machine.*



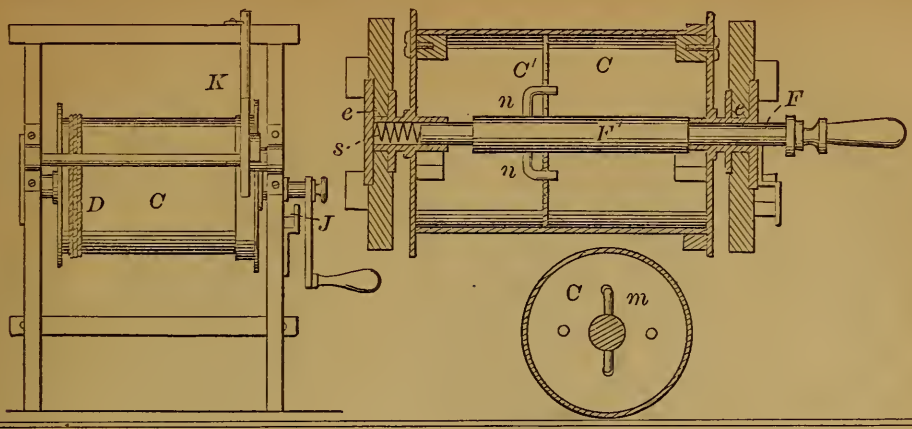
82262—C. Wintergerst—*Vapor Burner.*



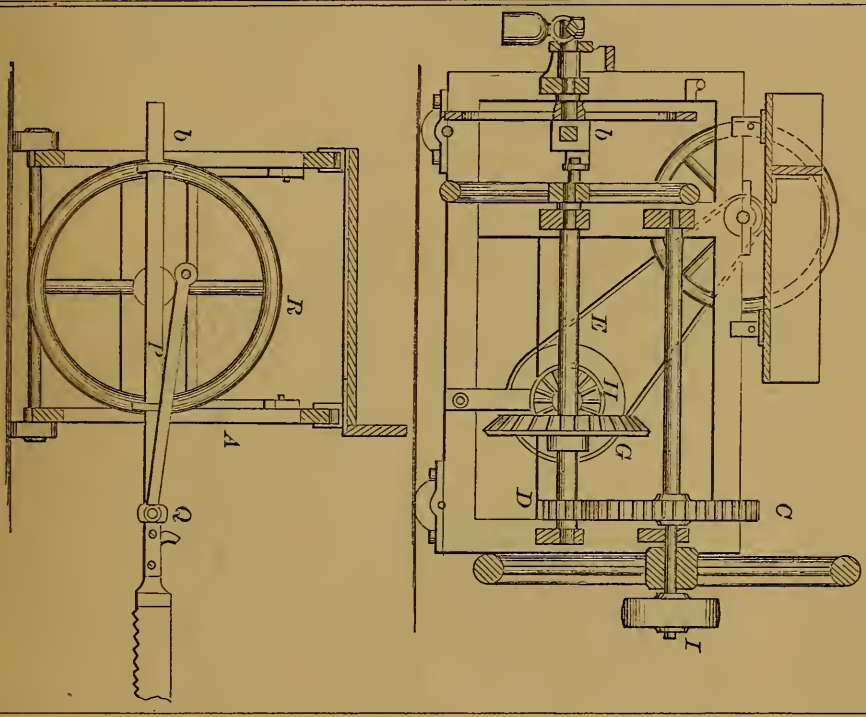
82263—Winants & Griffen—
Turpentine Still.



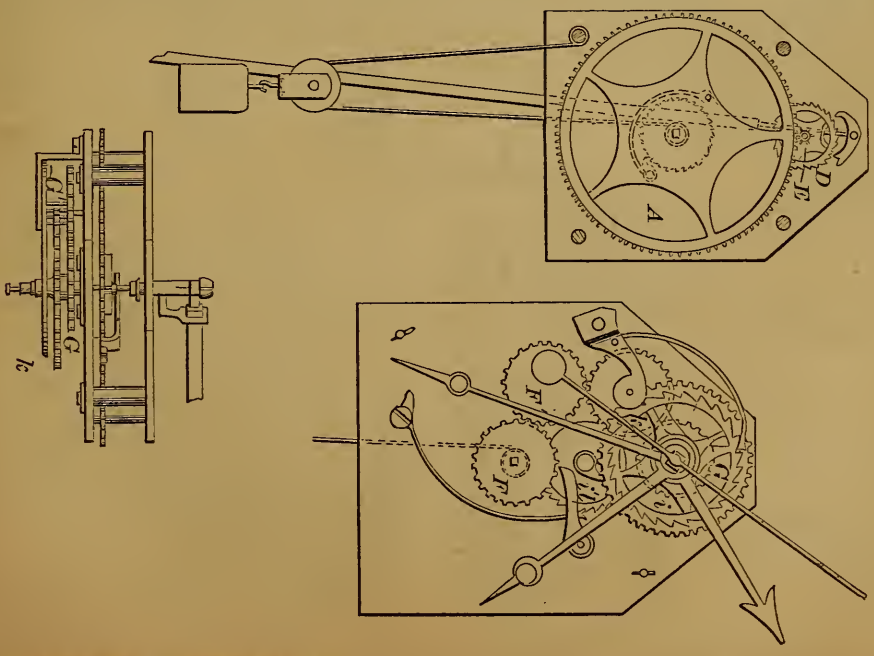
82264—C. F. Woodruff—*Water Elevator.*



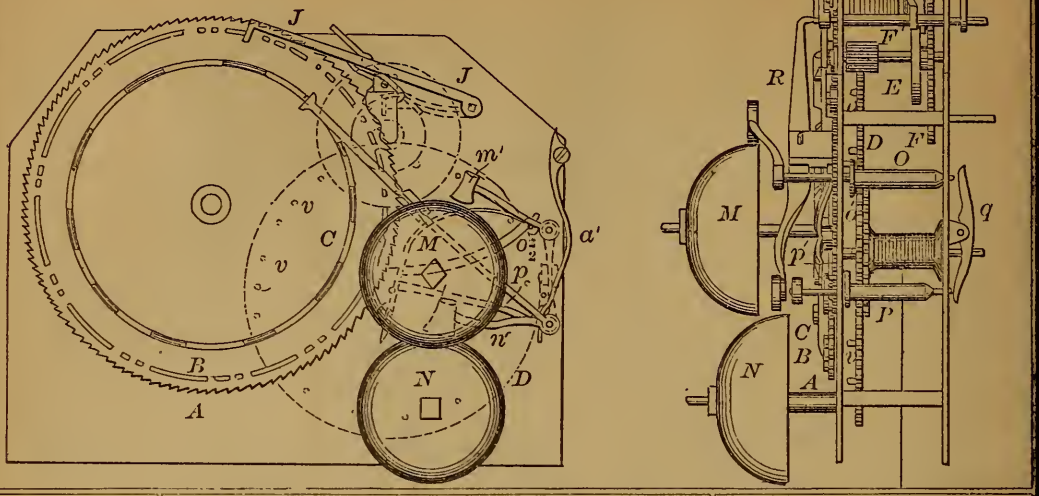
82265—O. C. Moore—*Sawing Machine.*



82266—J. B. Mayer—*Clock.*

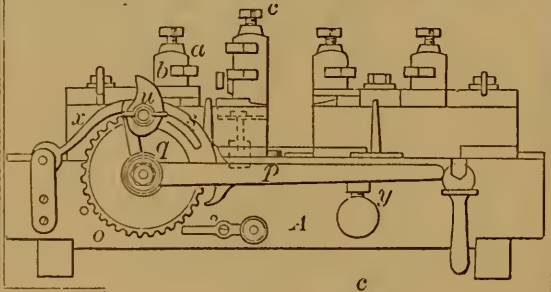


82267—J. B. Mayer—*Clock.*

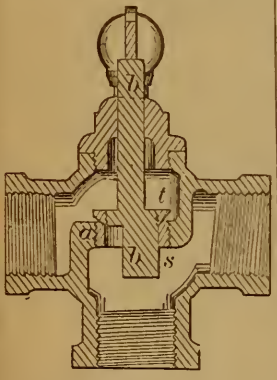


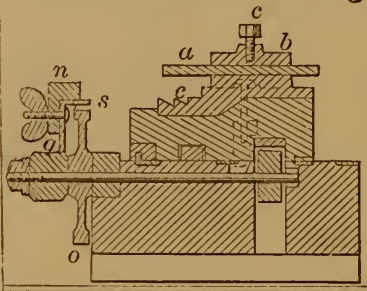
82268—R. A. Abbott—*Melodeon Reed.*

82269—A. A. Adams—*Head Block.*

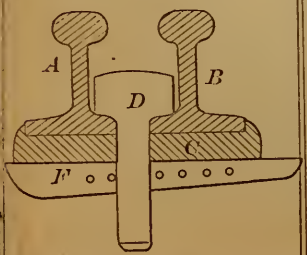


82270—
E. H. Ashcroft—
Steam Safety Valve.

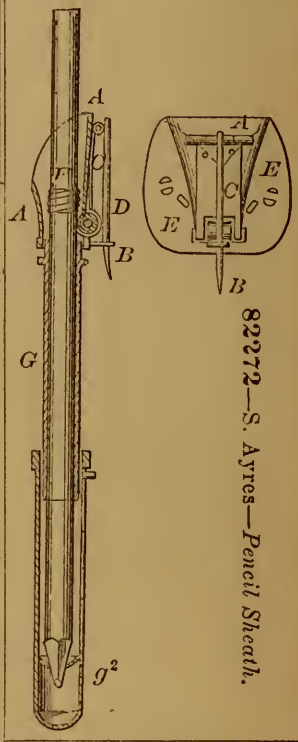




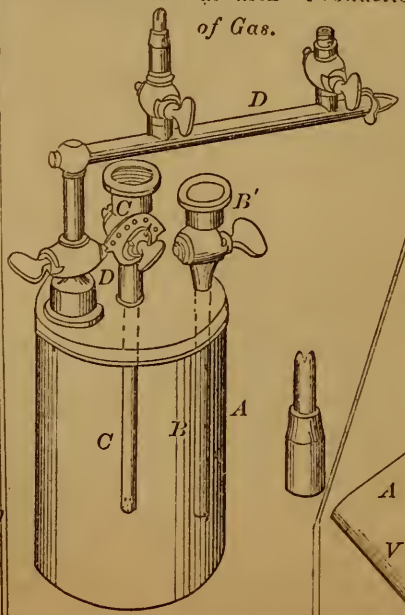
82271—
W. B Atkinson—
Railroad Rail Clamp.

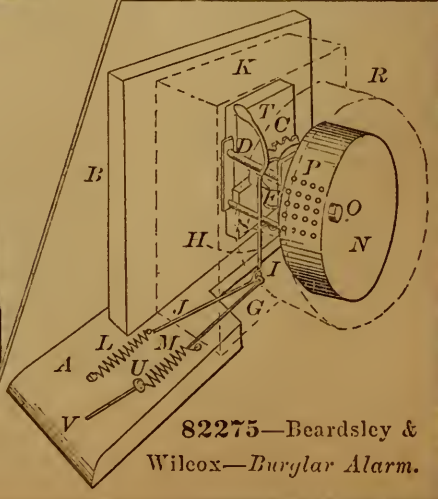


82272—S. Ayres—*Pencil Sheath.*



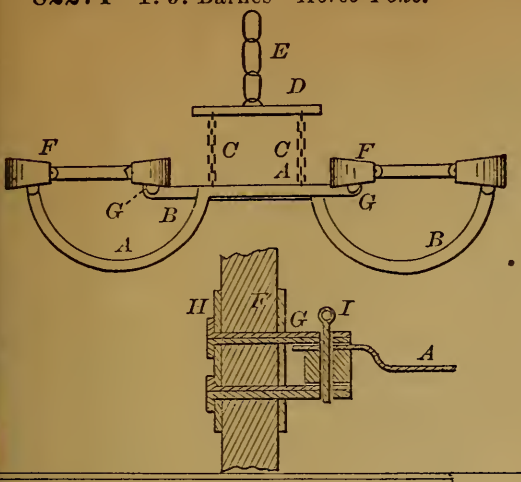
82273—A. Barbarin—*Production of Gas.*



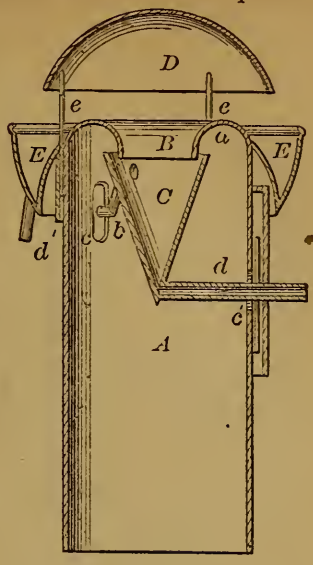


82275—Beardsley & Wilcox—*Burglar Alarm.*

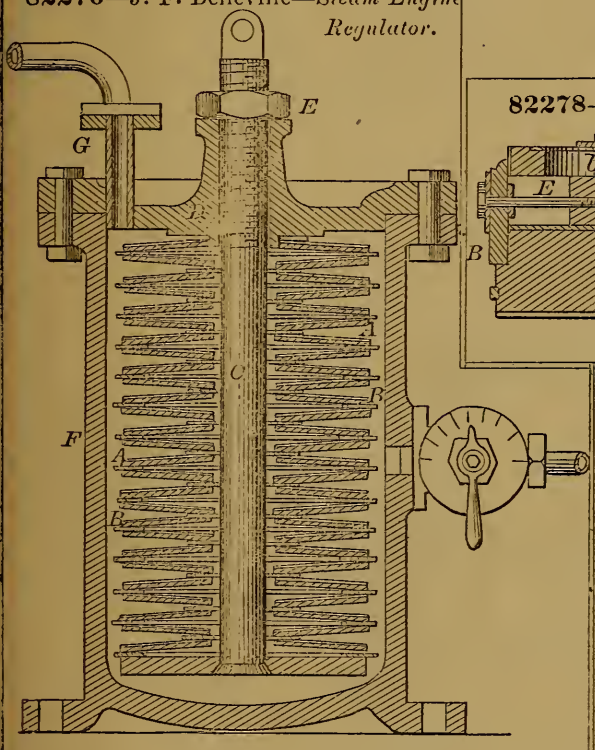
82274—T. J. Barnes—*Horse Yoke.*



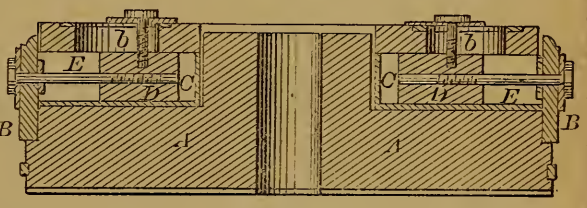
82277—W. C. Benn—*Spark Arrester.*



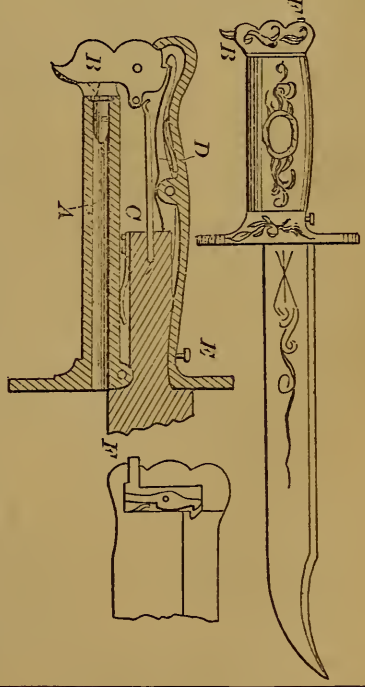
82276—J. F. Belleville—*Steam Engine Regulator.*



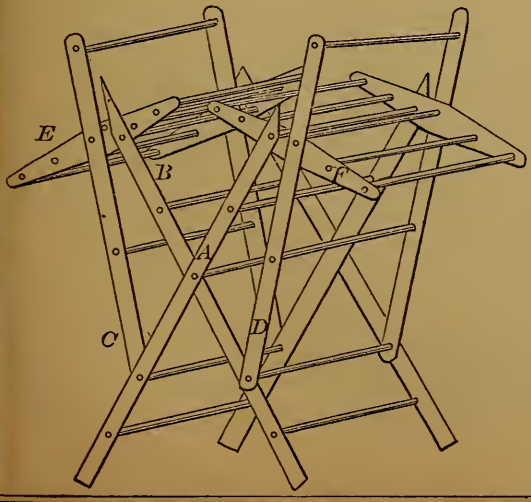
82278—W. C. Benn—*Mill Stone Balance.*



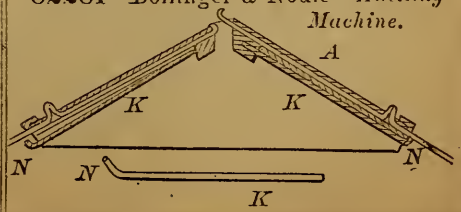
82279—C. E. Billings—*Pistol and Sword.*



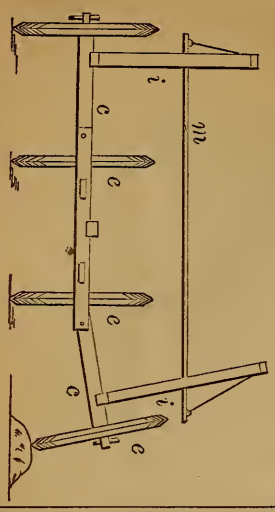
82280—J. B. Blood—*Clothes Dryer.*



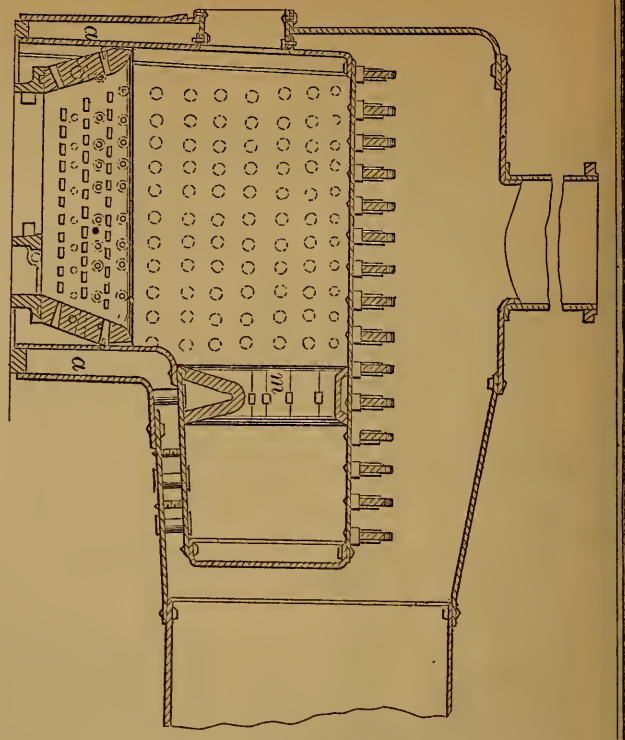
82281—Bollinger & Nodle—*Knitting Machine.*



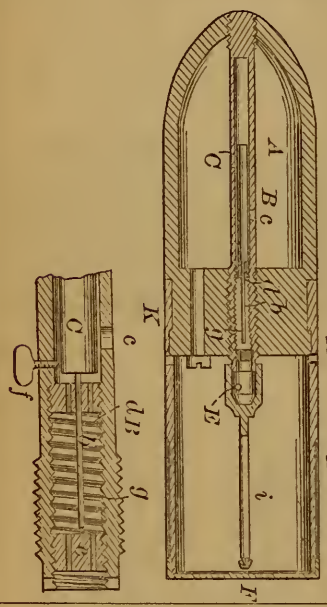
82282—W. L. Bower—*Landmarker.*



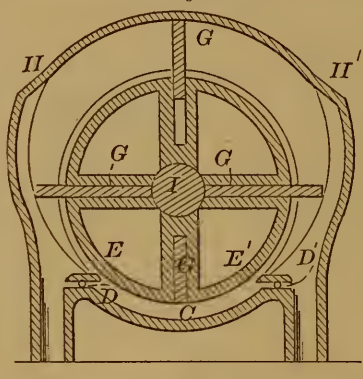
82283—H. G. Brooks—*Steam Generator.*



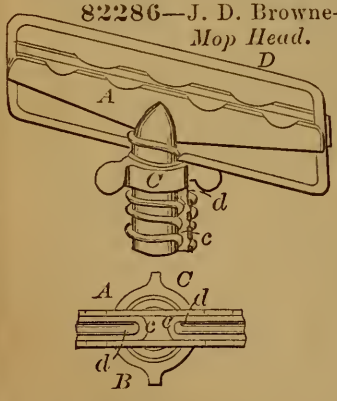
82284—C. F. Brown—*Projectile.*



82285—A. W. Browne—*Steam Engine.*

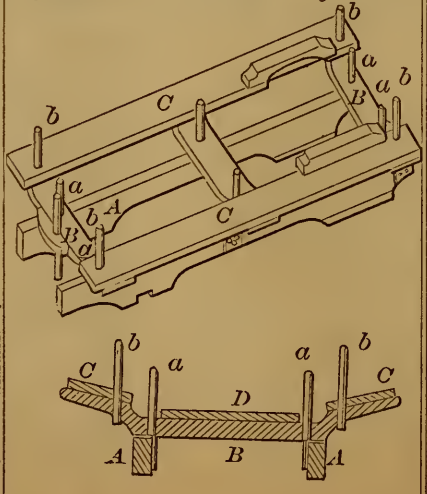


82286—J. D. Browne—*Mop Head.*

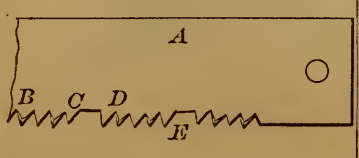


82287—J. D. Browne—*Sash Pulley.*

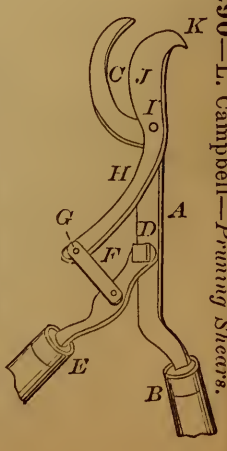
82288—S. Brownell—*Hay Rack.*



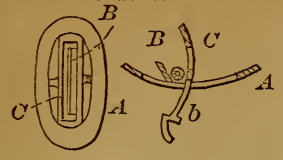
82289—B. F Burgess—*Saw*



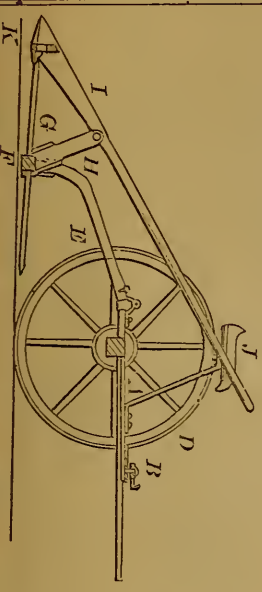
82290—L. Campbell—*Pruning Shears.*



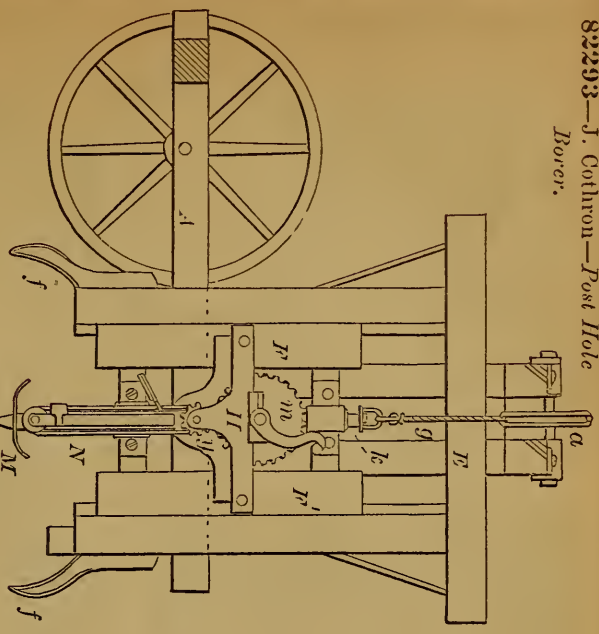
82291—F. Clausen—*Belt Buckle.*

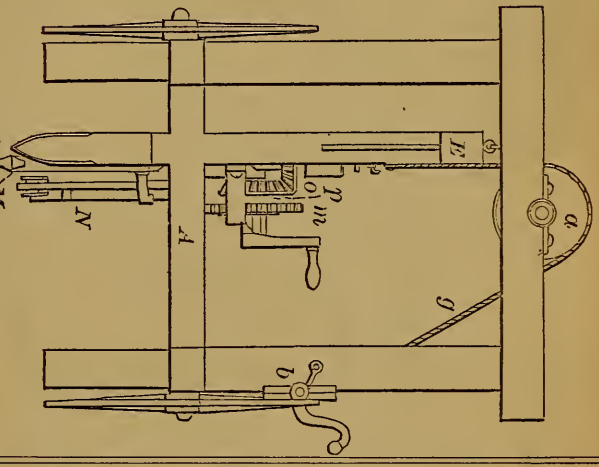


82292—W. H. Cook—*Horse Rake.*

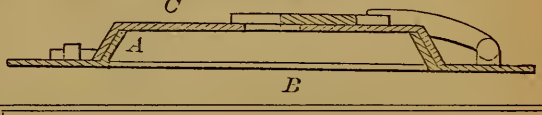


82293—J. Cothron—*Post Hole Borer.*

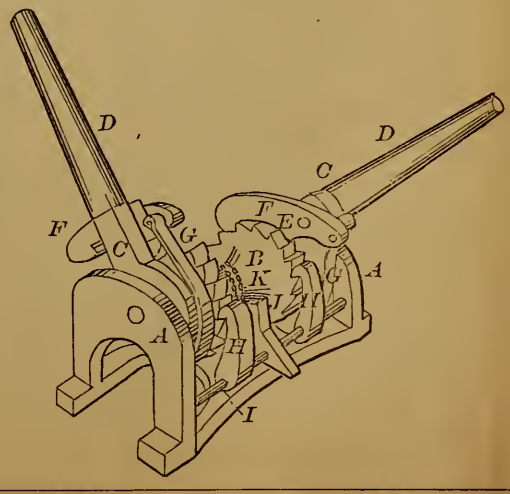




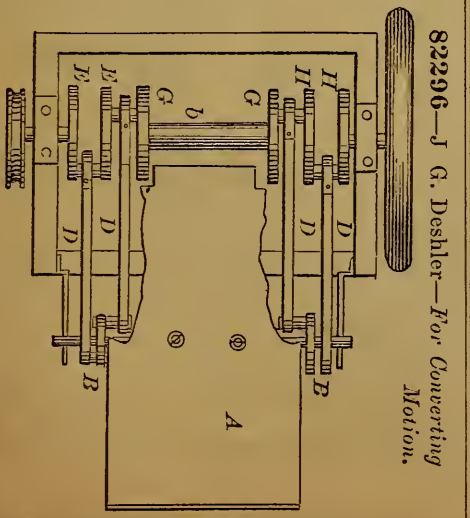
82294—W. W. Crane—*Furnace Door.*



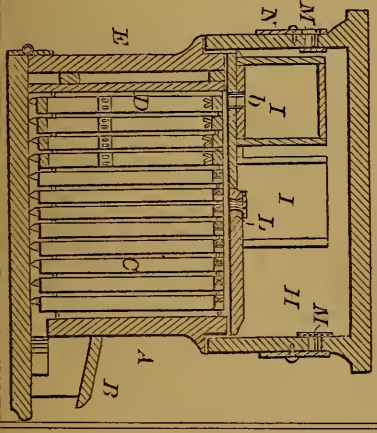
82295—A. Day—*Windlass.*



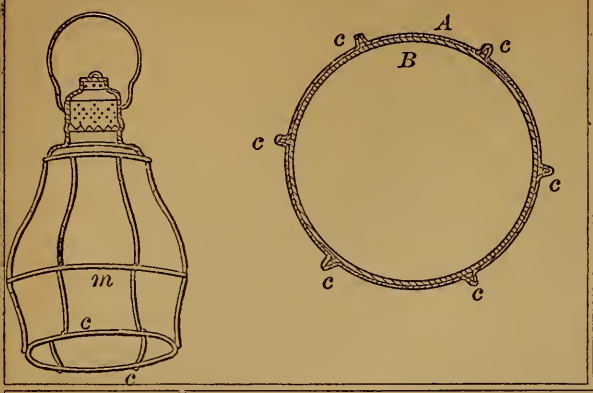
82296—J. G. Deshler—*For Converting Motion.*



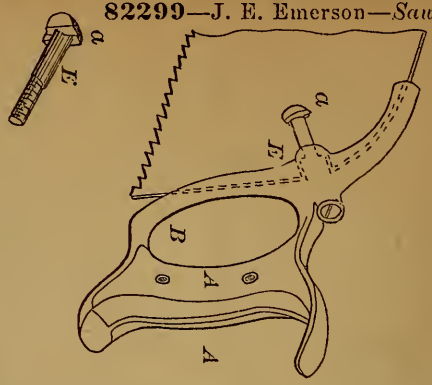
82298—G. Eason—*Beehive.*



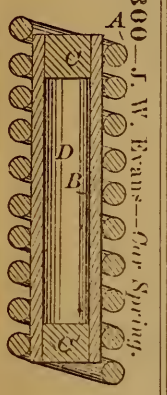
82297—A. M. Duburn—*Lantern.*



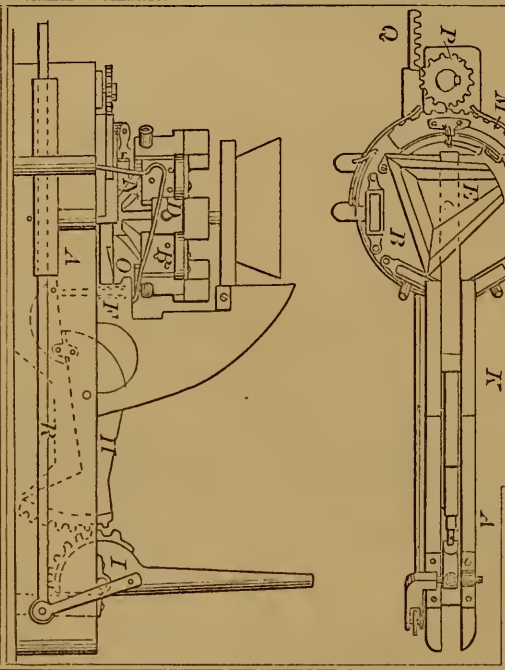
82299—J. E. Emerson—*Saw.*



82300—J. W. Evans—*Car Spring.*

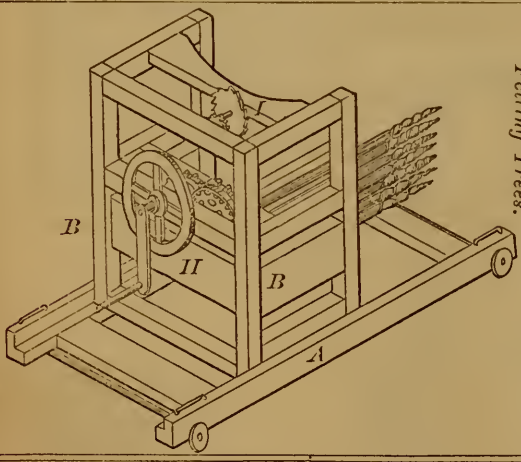


82301—O. V. Evans—*Concrete Block Making Machine.*

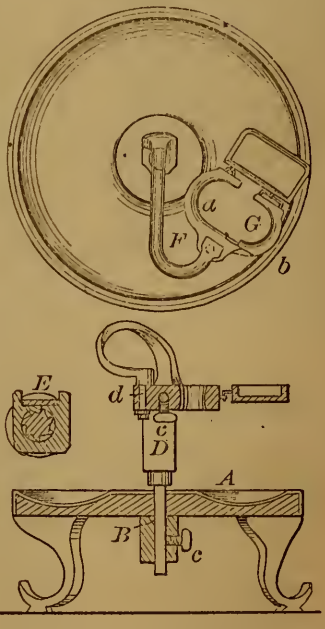


82302—E. Flanders—*Whip Goad.*

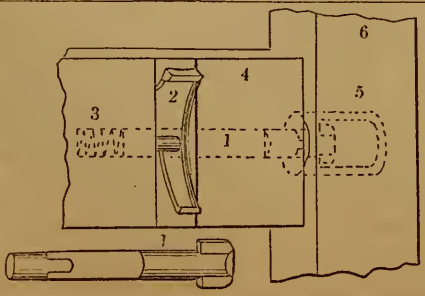
82303—M. R. Fory—*For Felling Trees.*



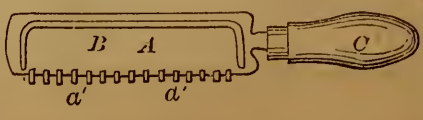
82304—F. A. Geisler—*Baby Walker.*



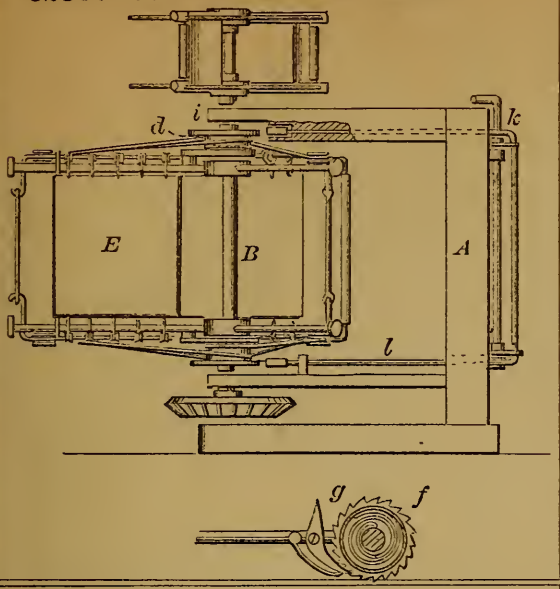
82305—C. M. Gilbert—*Bedstead Fastening.*



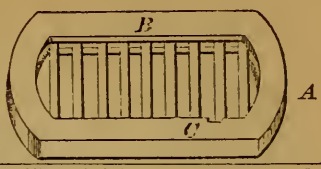
82306—W. L. Gilroy—*Knife.*



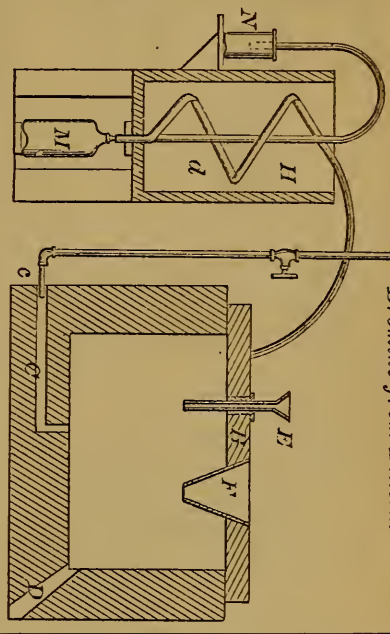
82307—B. H. Goodale—*Wind Wheel.*



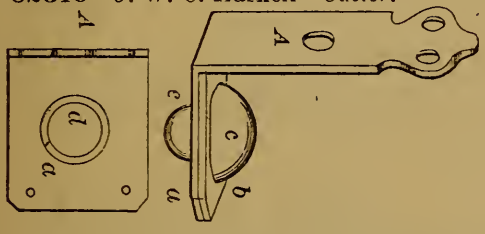
82308—J. M. Groh—*Mat.*



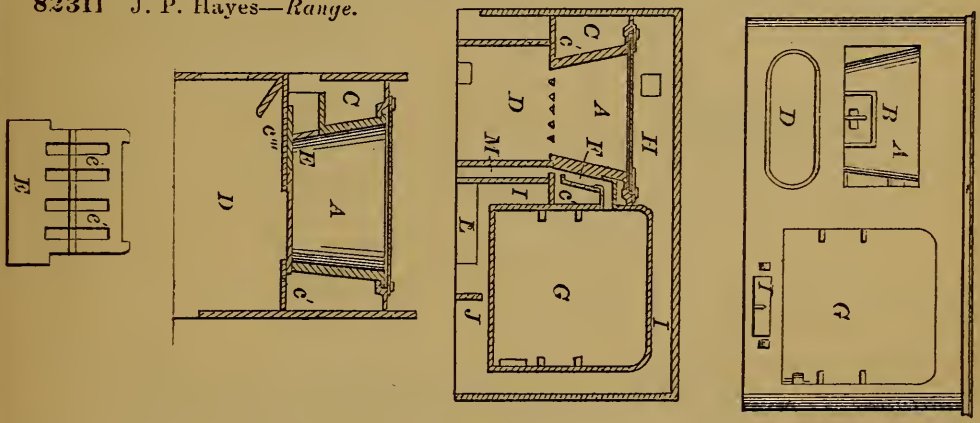
82309—G. A. Hagemann—*Manufacture of Bromine from Bittern.*



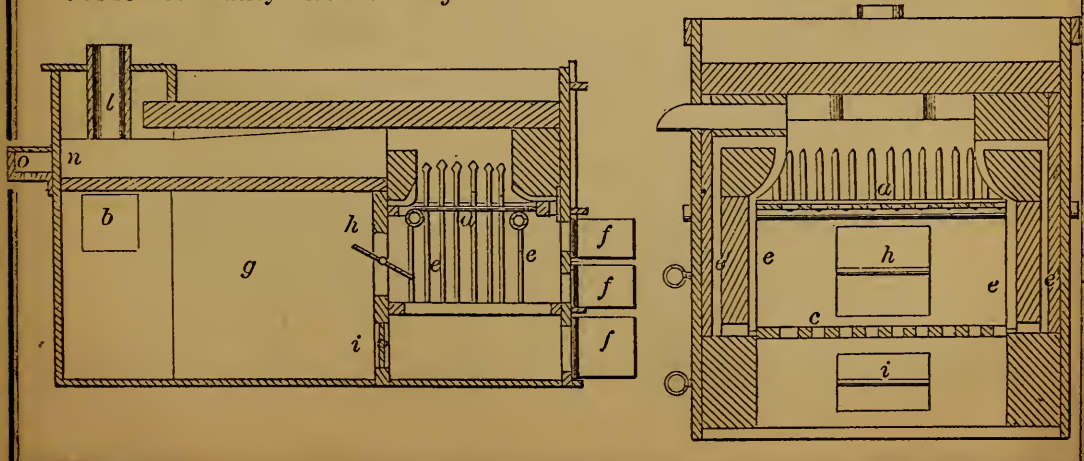
82310—J. W. C. Haskell—*Caster.*



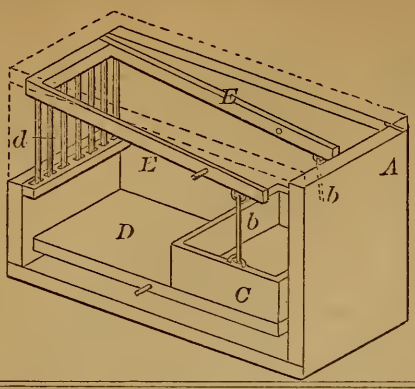
82311 J. P. Hayes—*Range.*



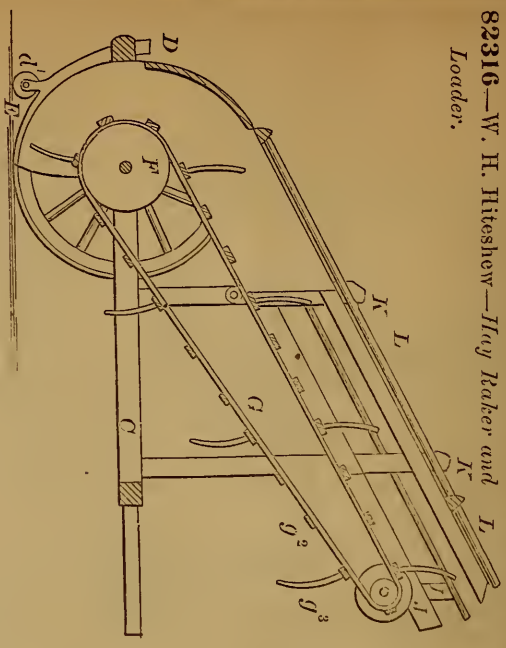
82313—J. Heatley—*Iron Working Furnace.*



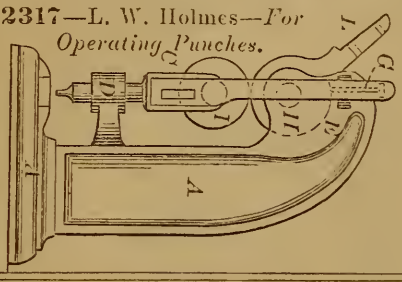
82312—B. F. Hayward—*Hen's Nest.*



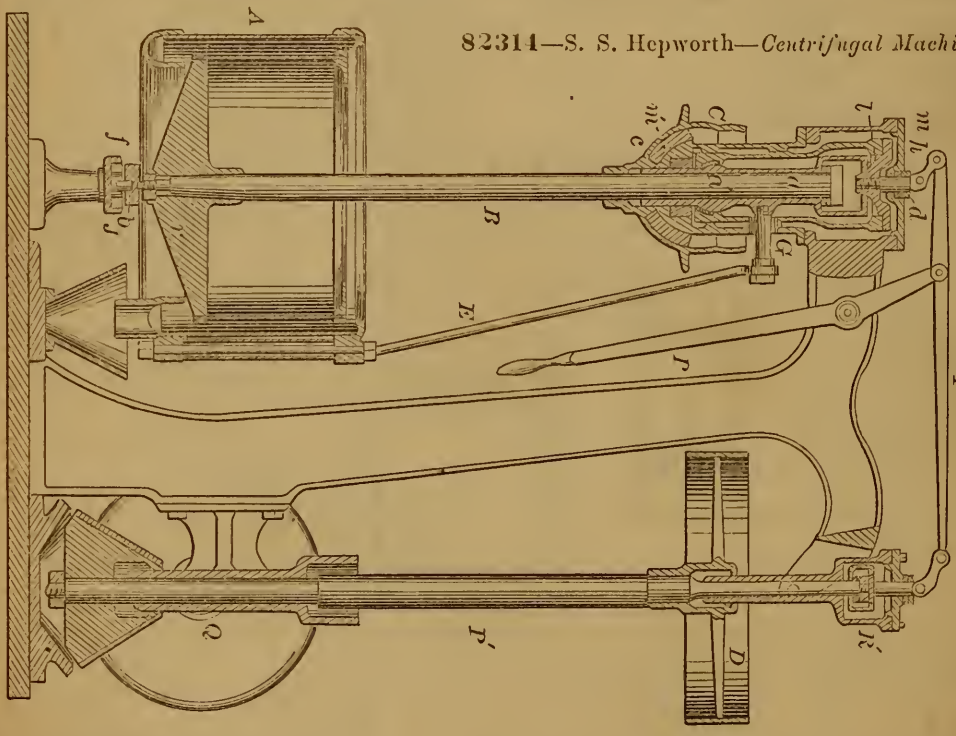
82316—W. H. Hiteshew—*Hay Raker and Loader.*



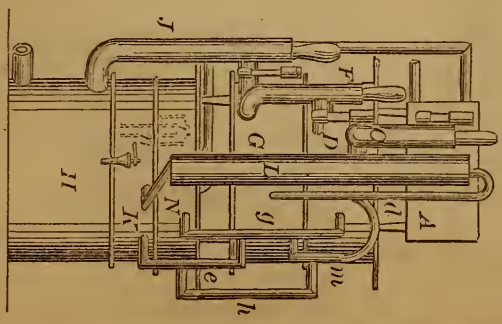
82317—L. W. Holmes—*For Operating Punches.*



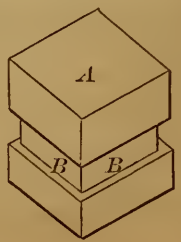
82314—S. S. Hepworth—*Centrifugal Machine.*



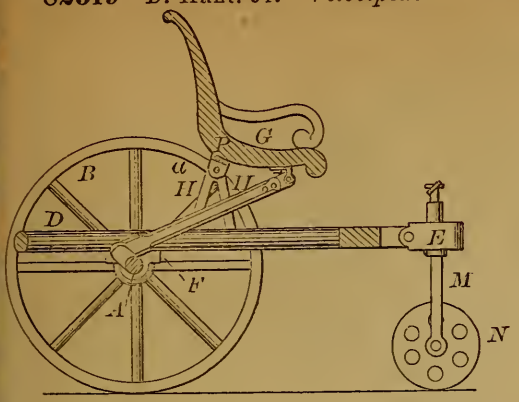
82318—N. Hotz—*Still.*



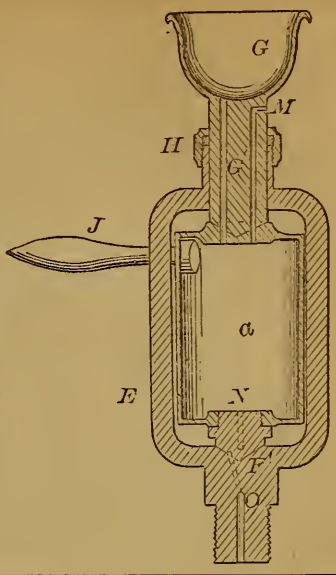
82320—D. W. Hunt—*Pavement.*



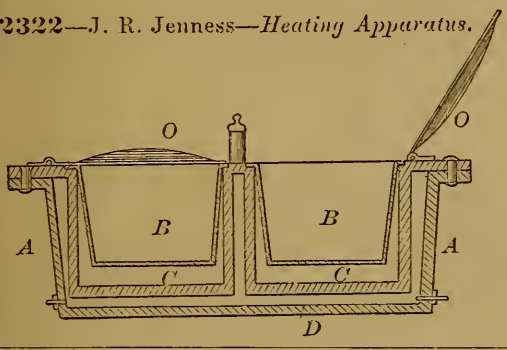
82319—D. Hunt. Jr.—*Velocipede.*



82321—E. Hurd—*Oil Cup.*

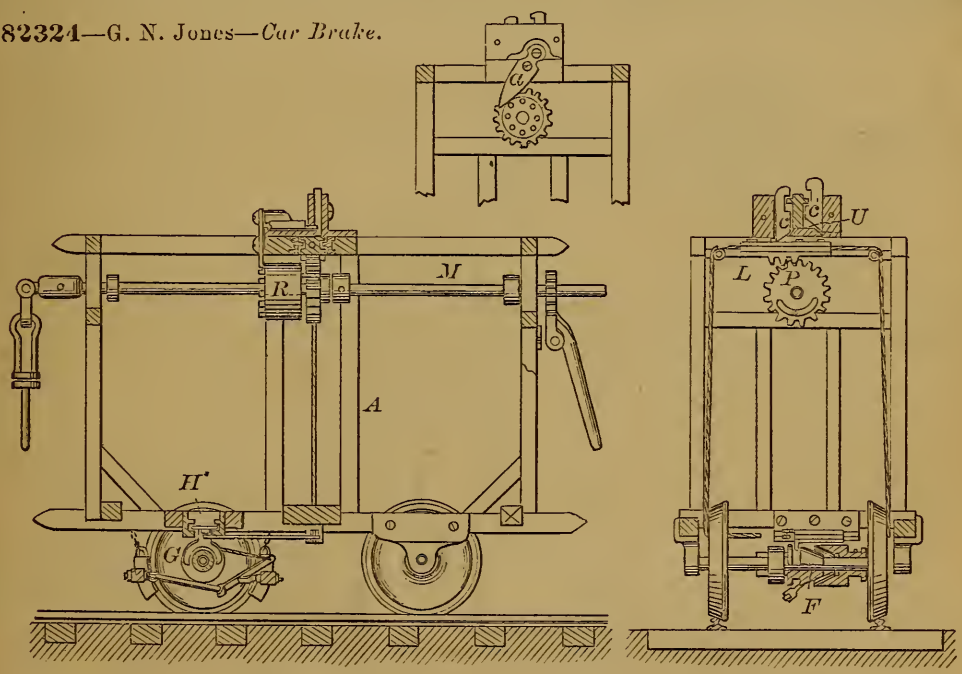


82322—J. R. Jenness—*Heating Apparatus.*

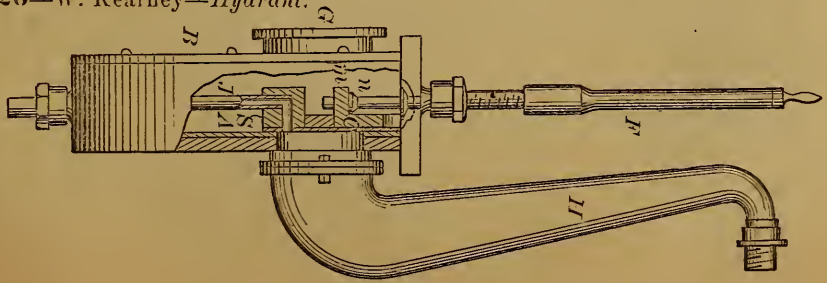


82323—A. Johnson—*Necktie.*

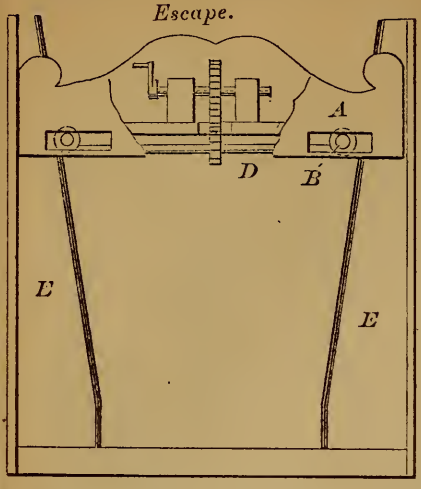
82324—G. N. Jones—*Car Brake.*



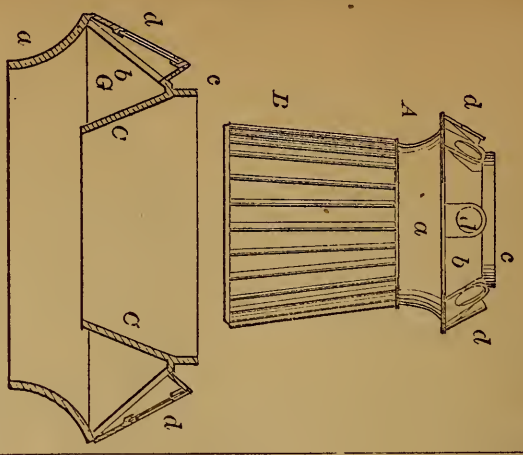
82326—W. Kearney—*Hydrant.*



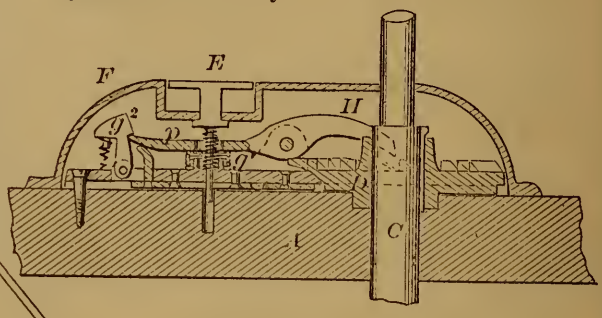
82325—J. L. Jürgens—*Fire Escape.*



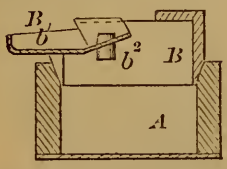
82327—J. H. Keyser—*Stove.*



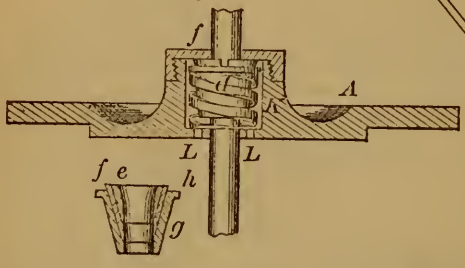
82329—J. Kirkley—*Car Brake Attachment.*



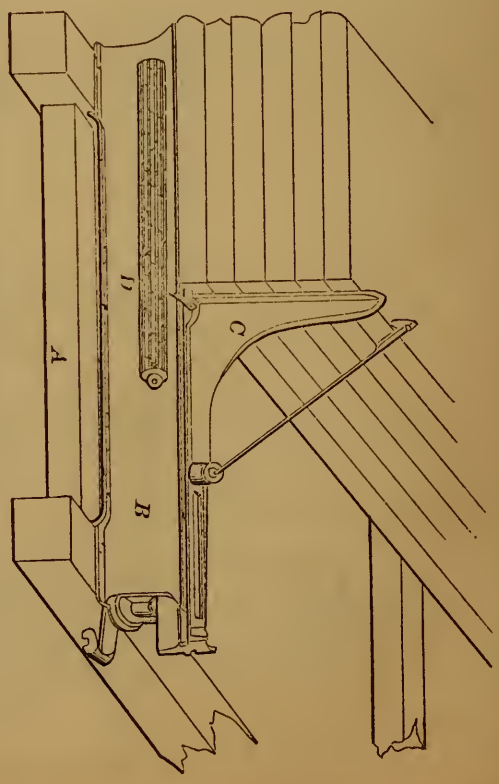
82330—J. B. Lewis—*Skimmer.*



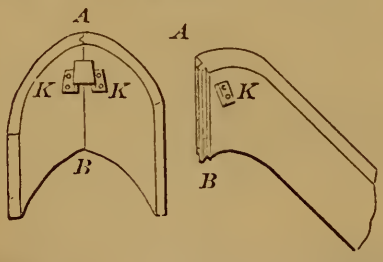
82331—S. Lockard—*Piston Rod Packing.*



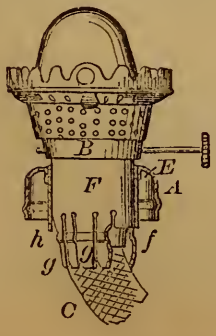
82328—W. A. L. Kirk—*Head Block.*



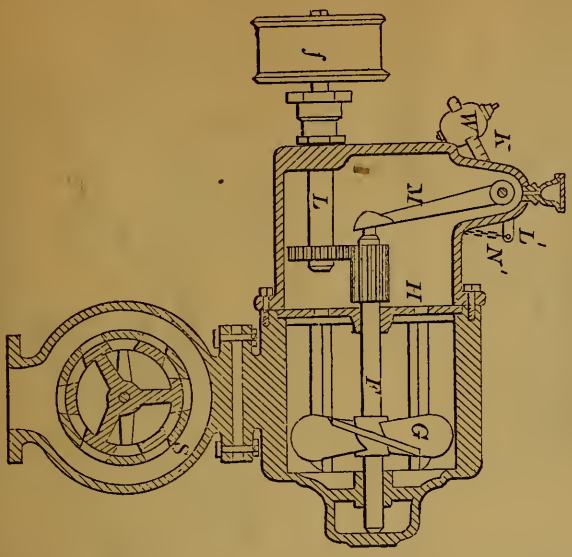
82333—M. R. Margerum—*Coffin.*

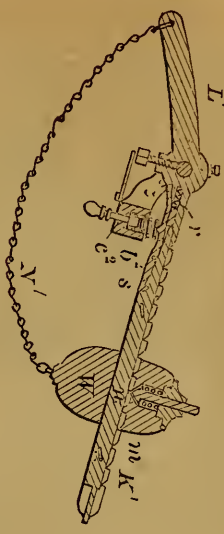


82334—J. P. McGee—*Lamp Burner.*

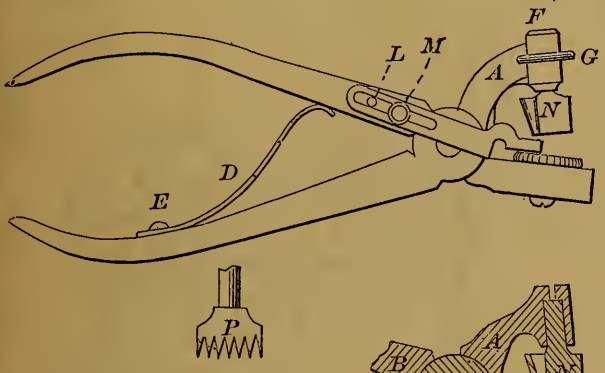


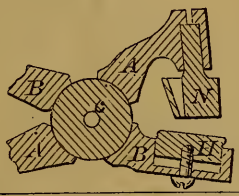
82332—Lynch & Huntoon—*Steam Engine Governor.*



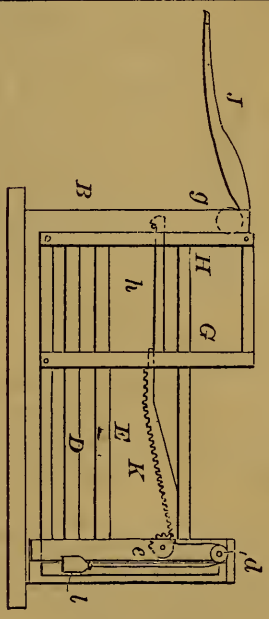


82335—J. L. McIntosh—*Pinking Tool.*

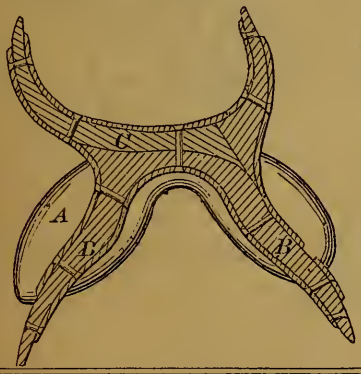


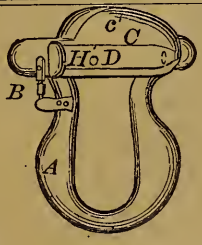


82336—A. W. Meek—*Gate.*

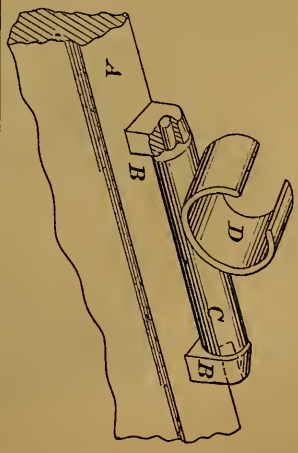


82337—J. C. Miller—
Side Saddle Tree.

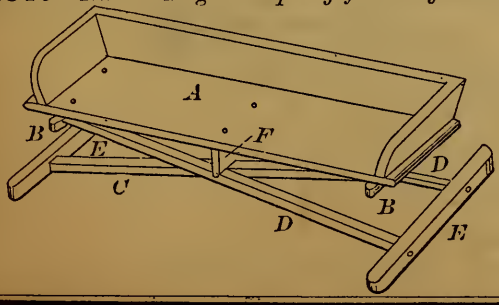




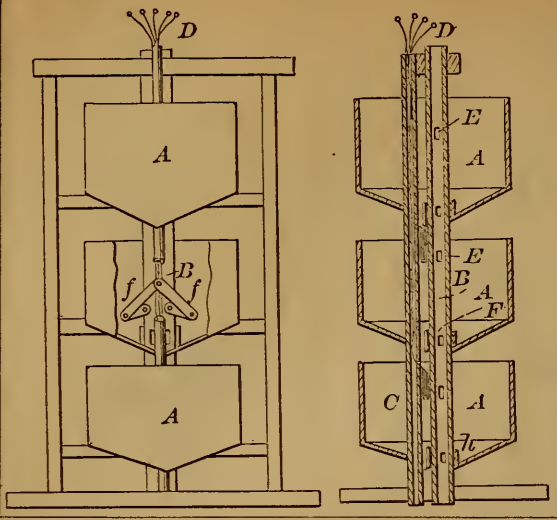
82338—P. H. Mills—*Row Lock.*



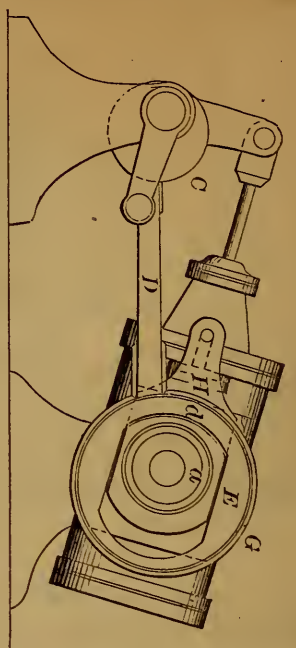
82340—Nale & Rogers—*Spring for Wagon Seats.*

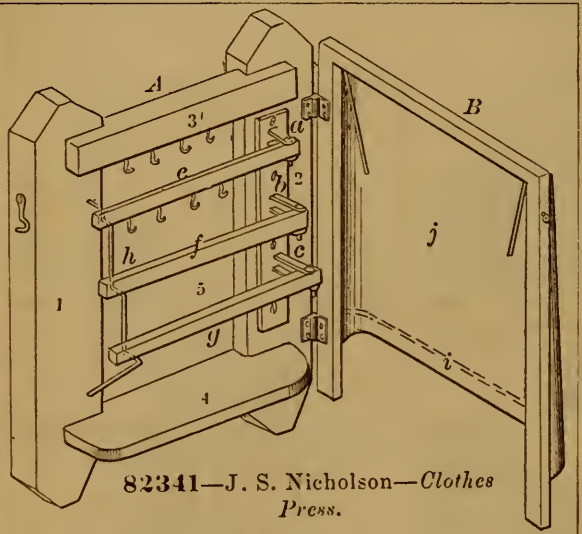


82339—R. M. Mitchell—*Grain Storer.*



82342—C. H. & D. B. Overton—*Valve Gear for Oscillating Engines.*

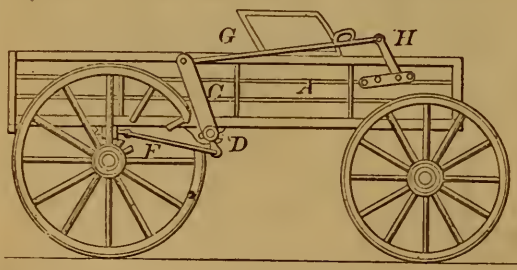




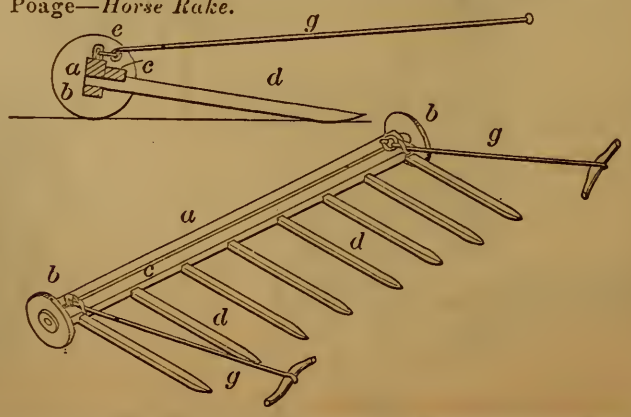
82341—J. S. Nicholson—*Clothes Press.*

82343—A. & E. W. Pate—*Wagon.*

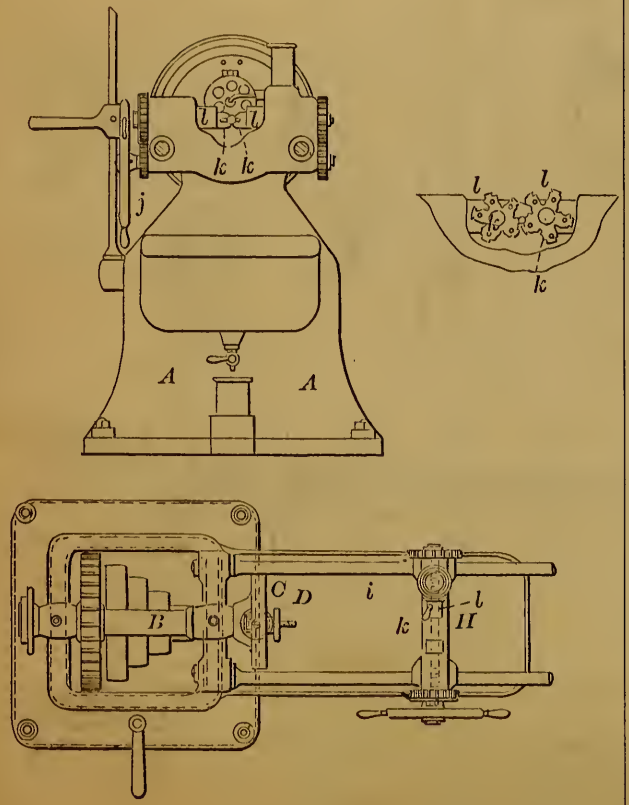
82344—D. Philips—*Wagon Brake.*



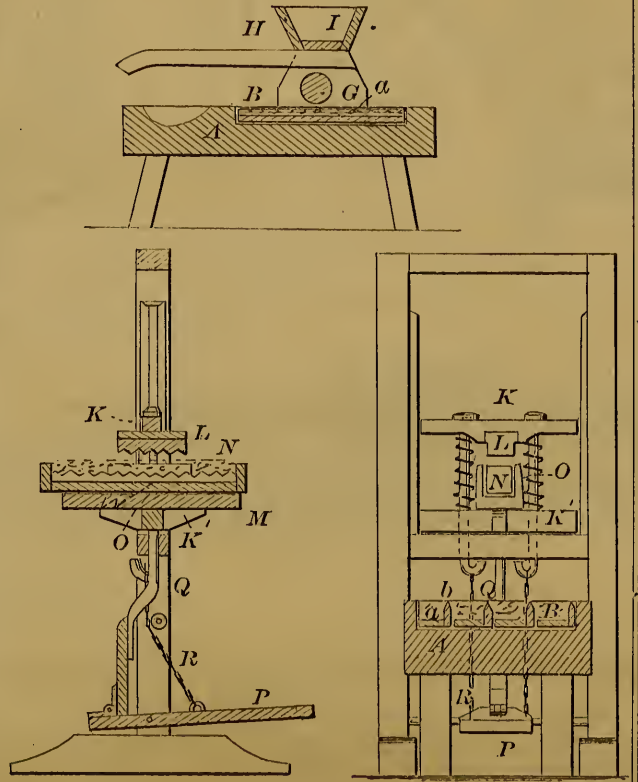
82345—C. H. Poage—*Horse Rake.*



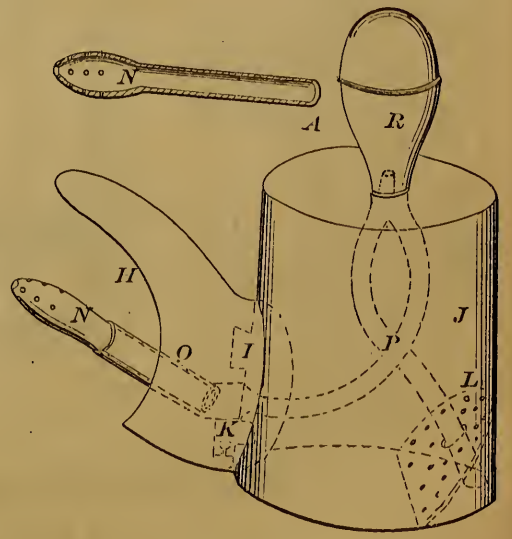
82346—D. Poulot—*For Cutting Screw Threads.*

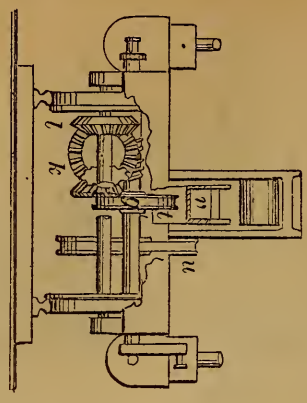


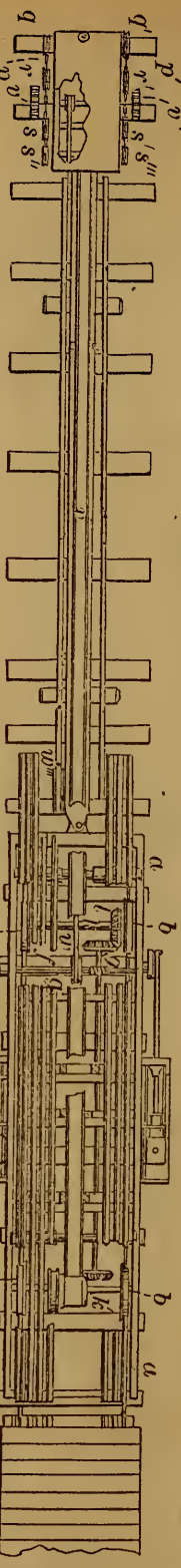
82347—E. K. Powers—*For Moulding Candy.*

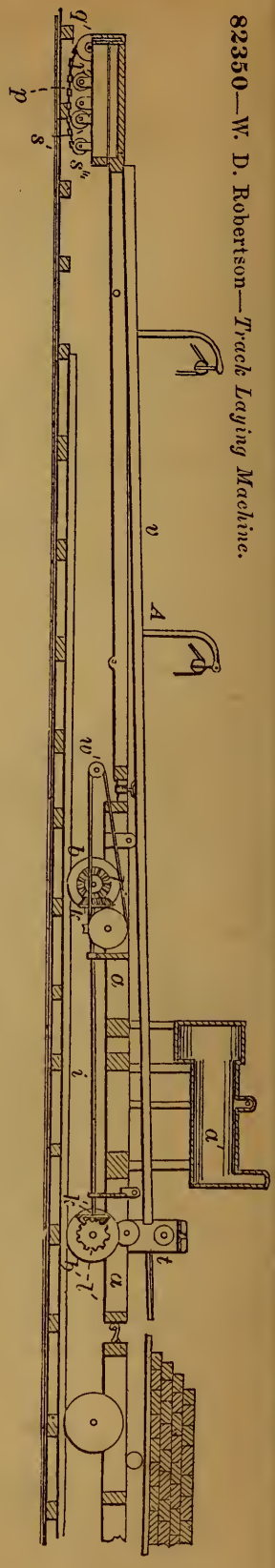


82349—A. Rittenhouse—*Syringe Bed Pan.*



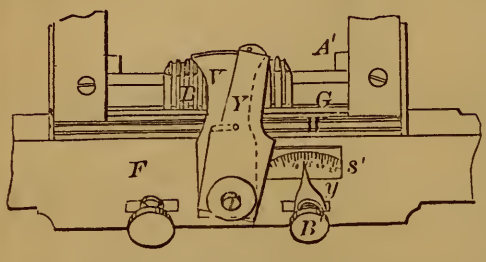


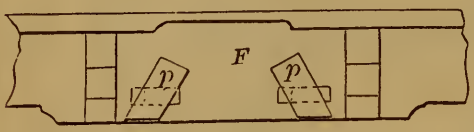


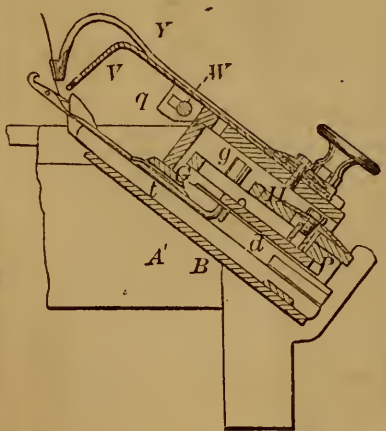


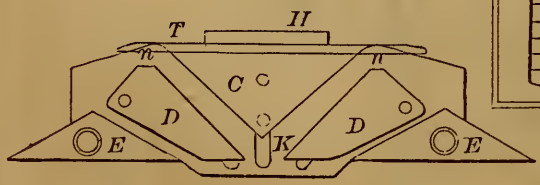
82350—W. D. Robertson—*Track Laying Machine.*

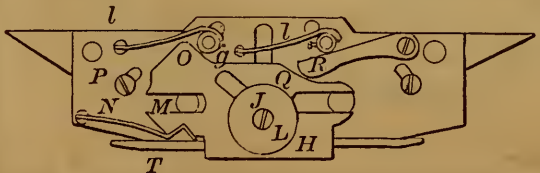
82348—J. W. Rist—*Knitting Machine.*



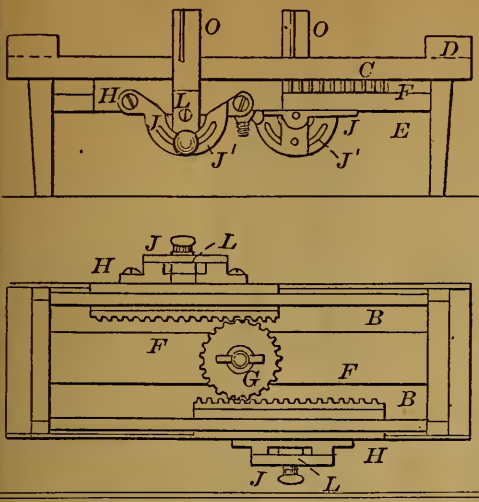




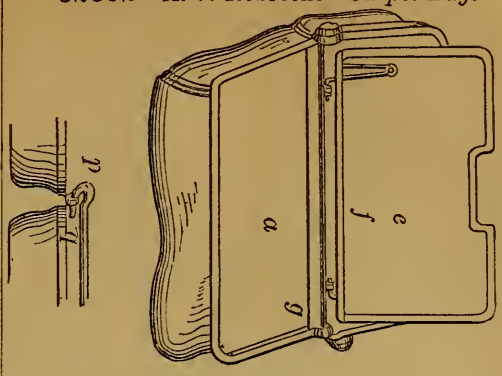




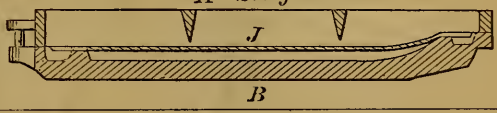
82351—C. Robinson—*Mitre Box.*



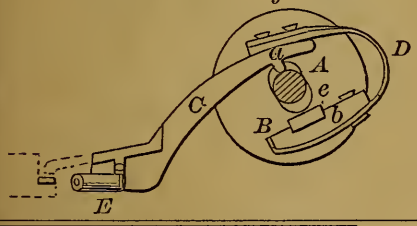
82352—A. J. Robrecht—*Carpet Bag.*



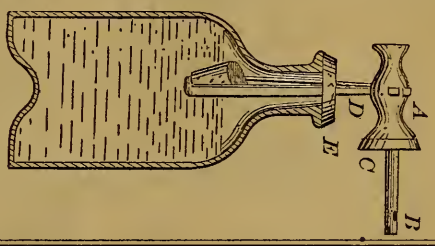
82353—N. W. Russell—*Mould for Casting A Sleigh Shoes.*



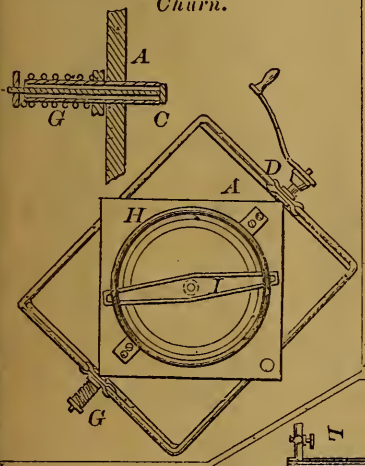
82354—D. Savery—*For Holding Cut Nails while being Headed.*



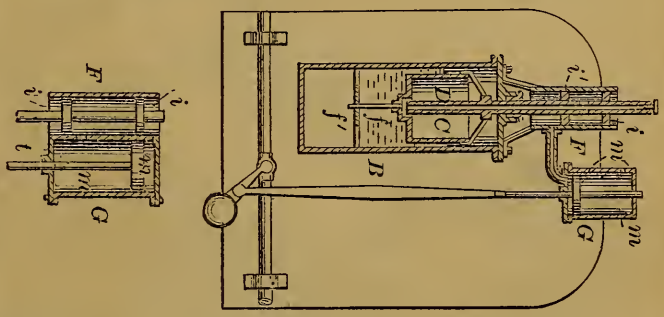
82355—G. W. Schermerhorn—*Cork Puller.*



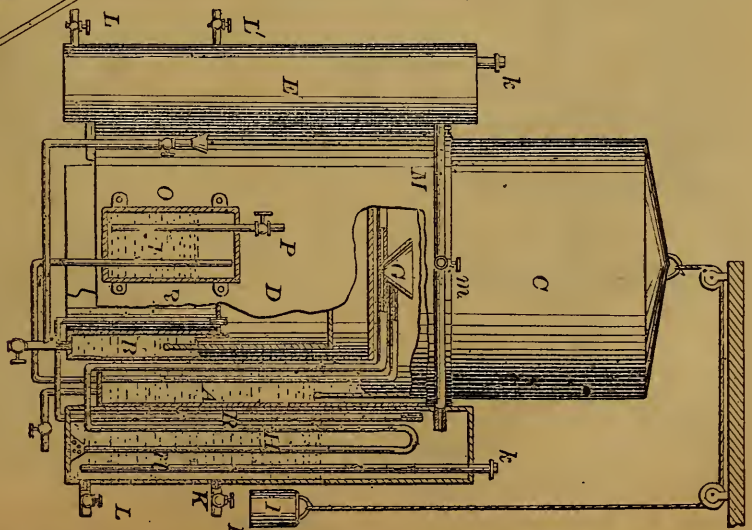
82356—J. & W. A. Shaw—*Churn.*



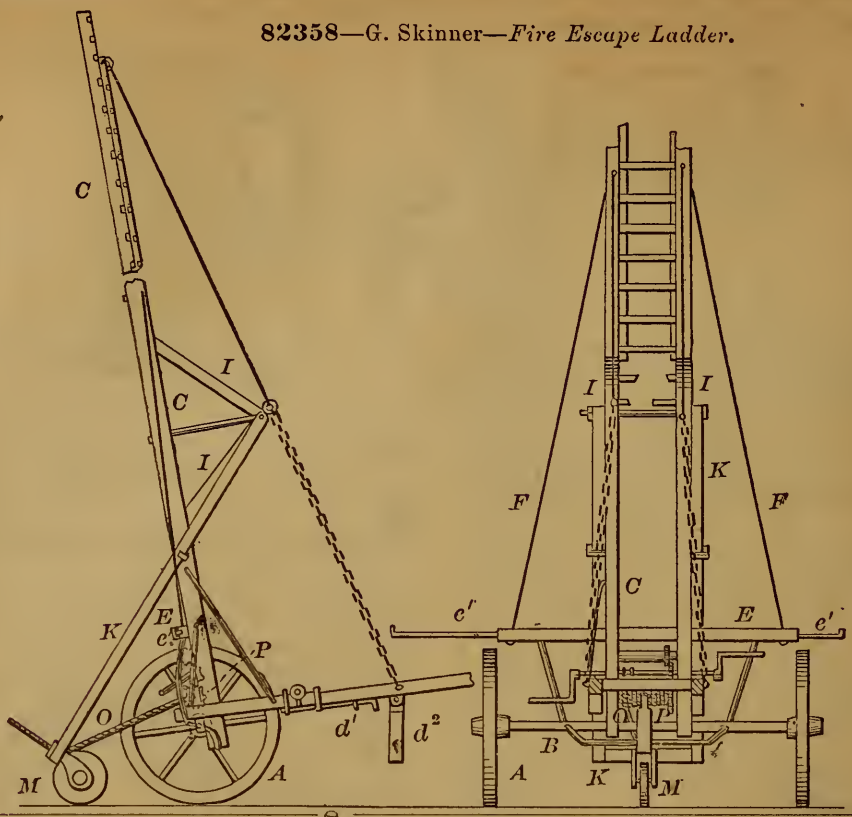
82357—E. Sheppard—*Automatic Boiler Feeder.*



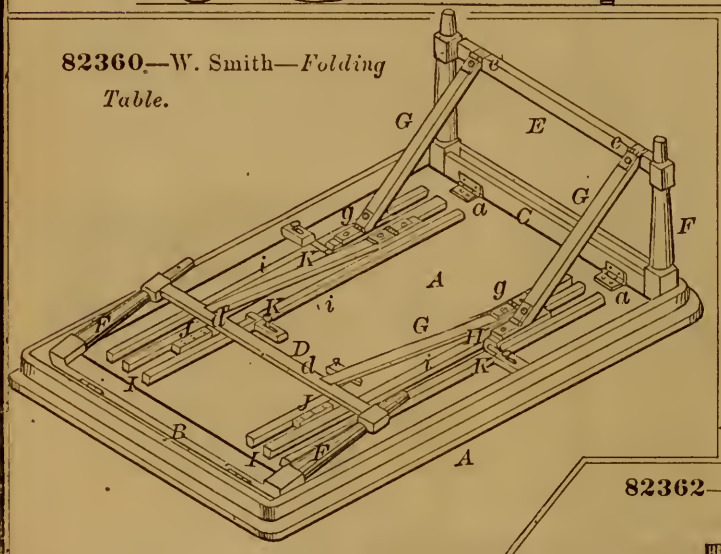
82359—H. Slatter—*Carburetter.*



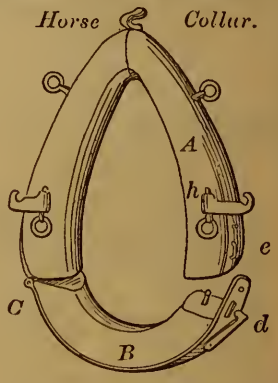
82358—G. Skinner—*Fire Escape Ladder.*



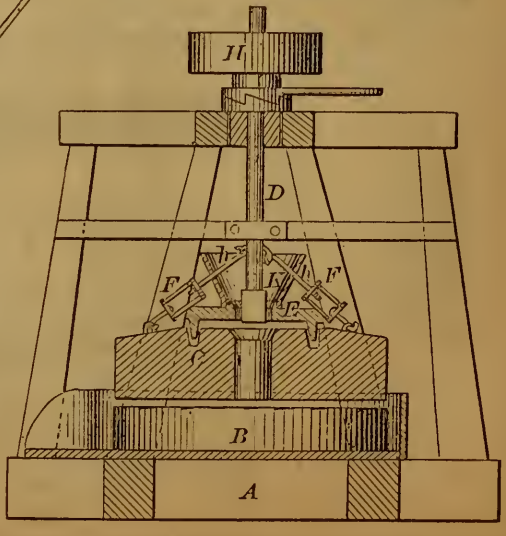
82360—W. Smith—*Folding Table.*



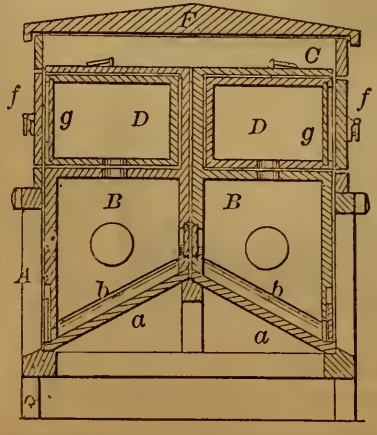
82361—J. A. Sutherland—*Horse Collar.*



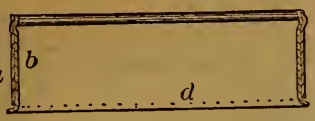
82362—S. Swesey—*Quartz Mill.*



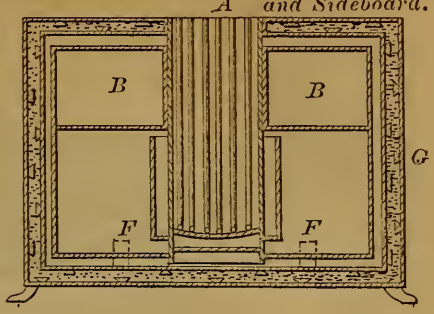
82363—J. Tallman—*Beehive.*



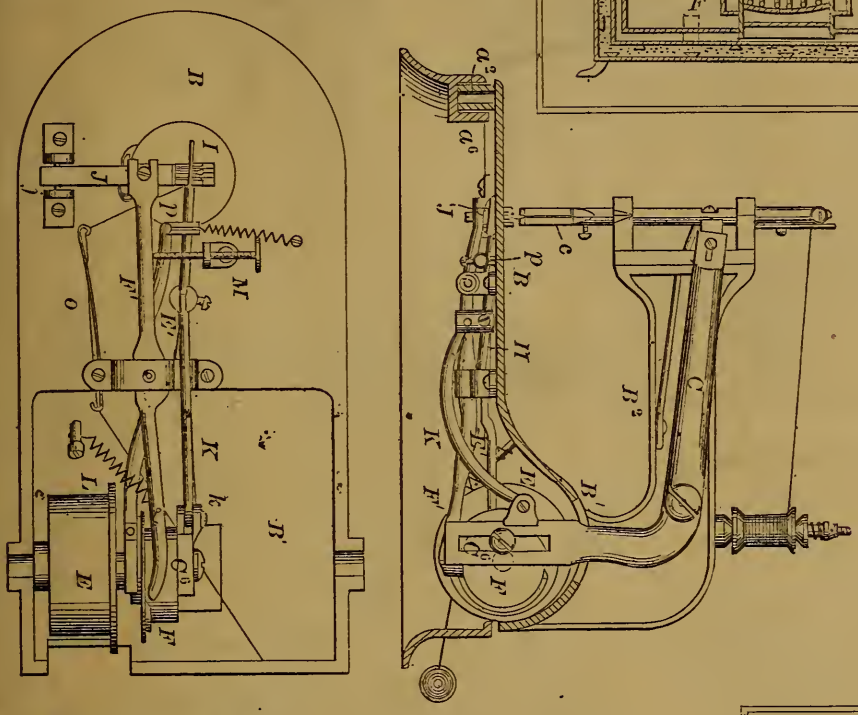
82364—G. W. Thompson—*Hat Sweat.*

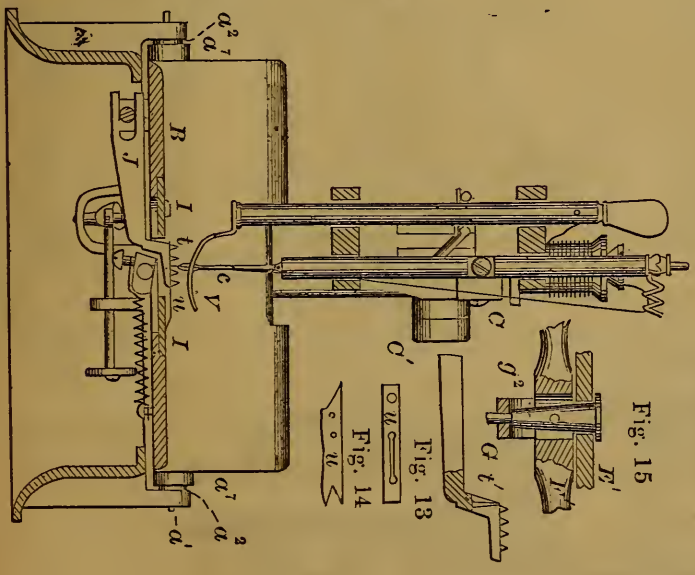


82365—J. A. Thompson—*Refrigerator and Sideboard.*

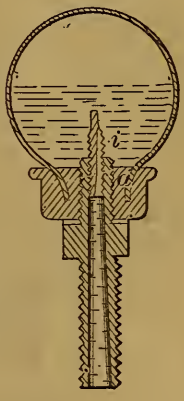


82366—J. A. Wagoner—*Sewing Machine.*

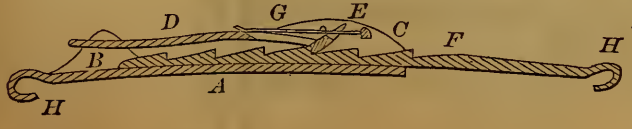




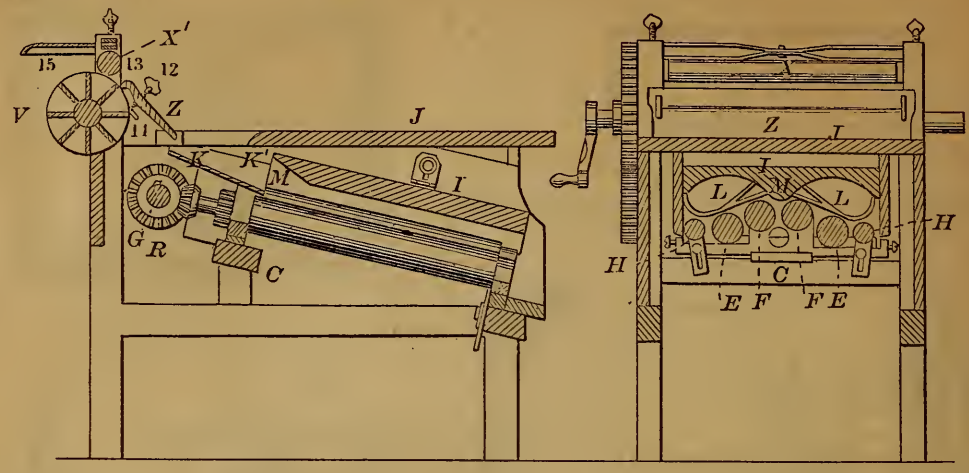
82368—G. Waters—*Lubricator.*



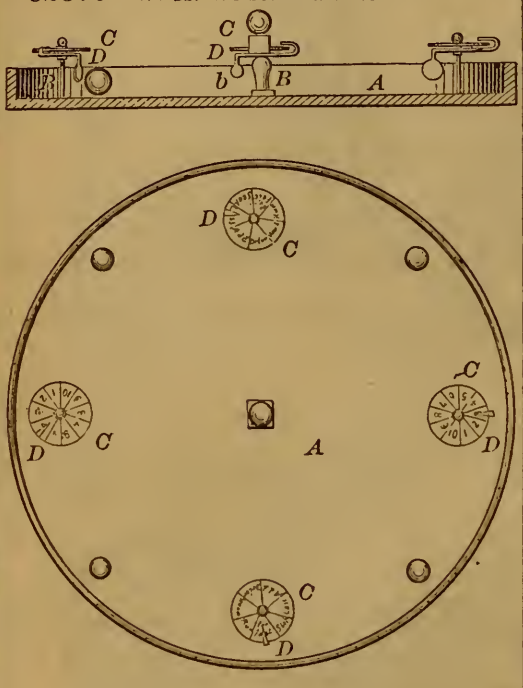
82367—J. B. Waterman—*Hames and Strap Fastener.*



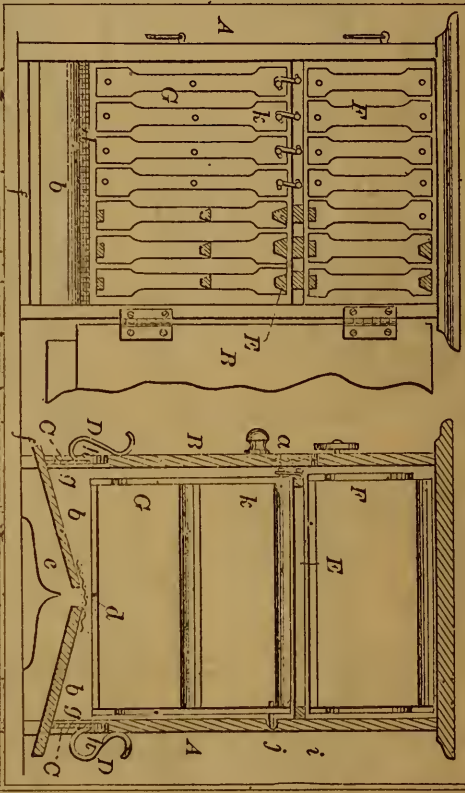
82369—S. Wesson—*Corn Husker.*



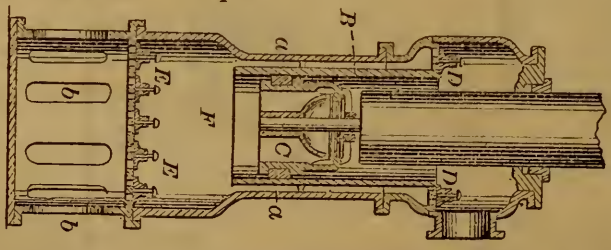
82370—W. H. Wilson—*Game.*



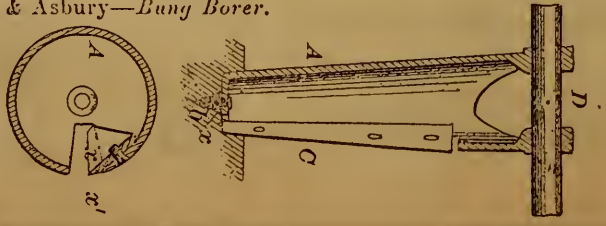
82372—V. Zimmerman—*Beehive.*



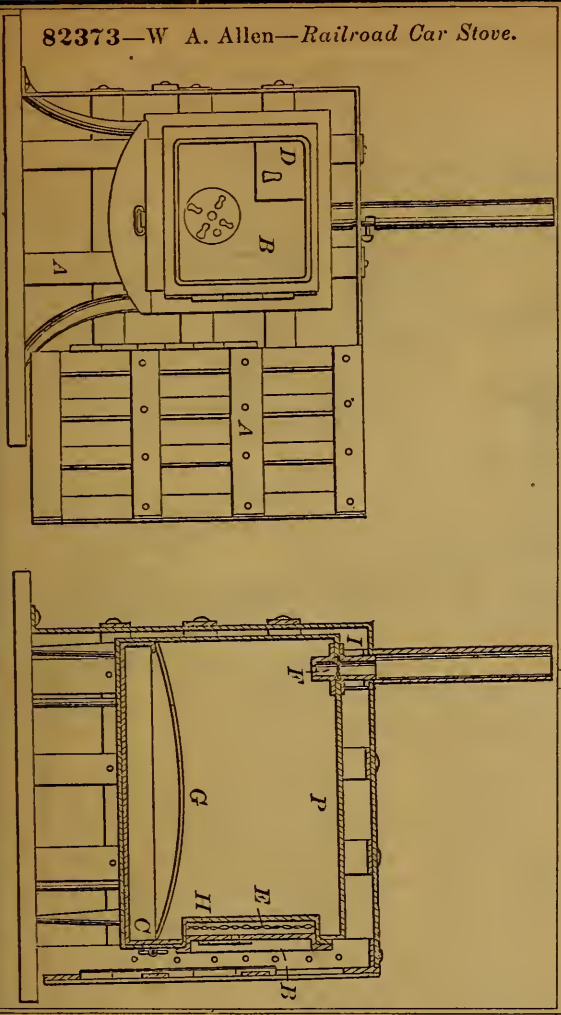
82371—Woodruff & Beach—*Pump.*



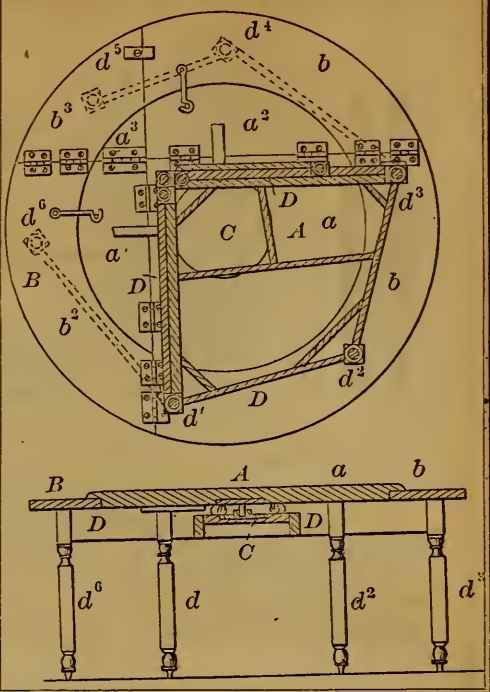
82374—Baker & Asbury—*Bung Borer.*



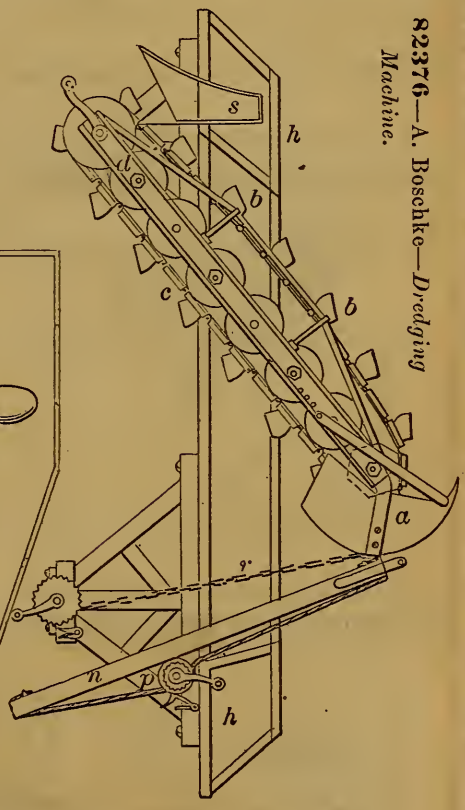
82373—W A. Allen—*Railroad Car Stove.*



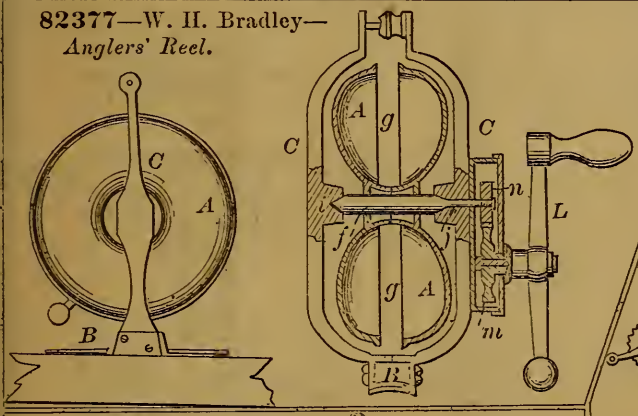
82375—Bloebaum & Nagel—*Table.*



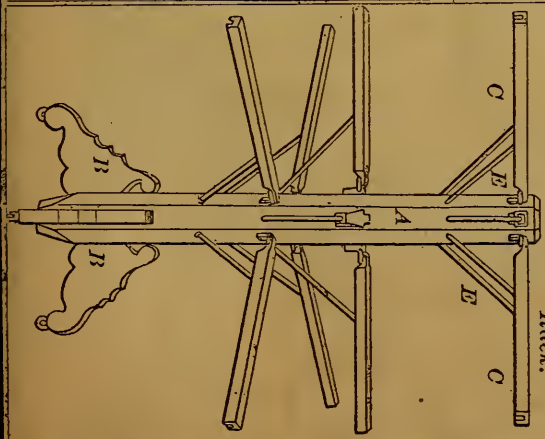
82376—A. Boschke—*Dredging Machine.*



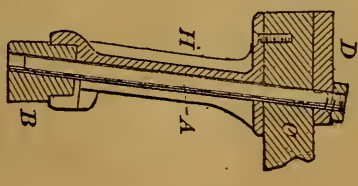
82377—W. H. Bradley—*Anglers' Reel.*



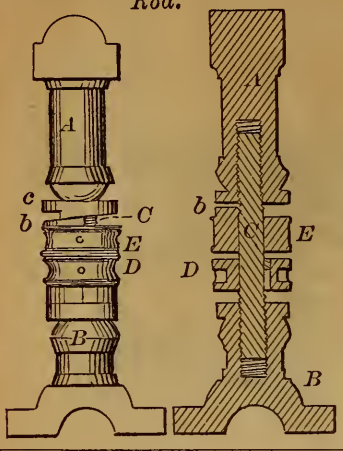
82378—C. K. Breneman—*Clothes Rack.*



82380—B. F Cady—*Sled Knee.*

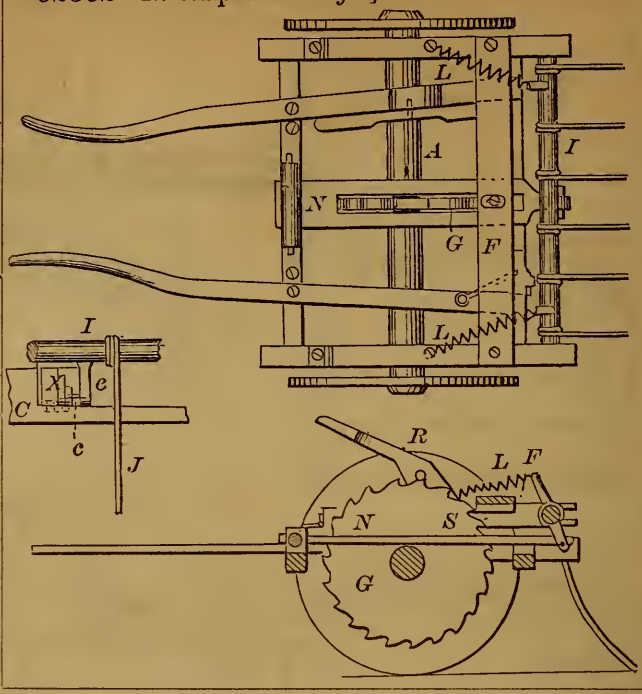


82379—E. Brown—*Connecting Rod.*

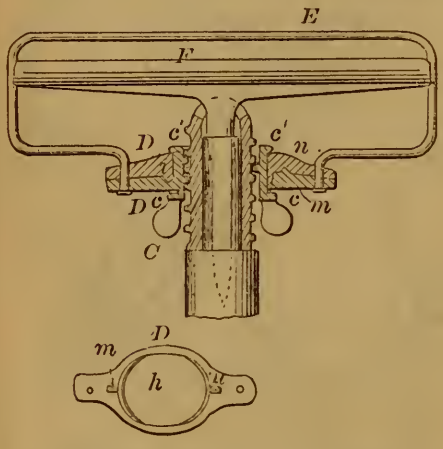


82381—J. Camp—*Lifting Jack.*

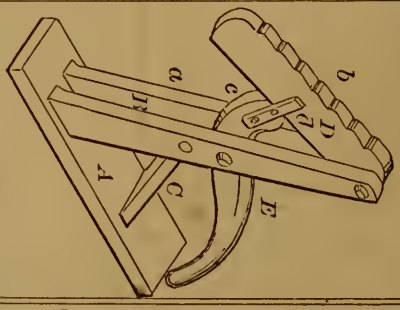
82382—N. Chapman—*Hay Spreader.*



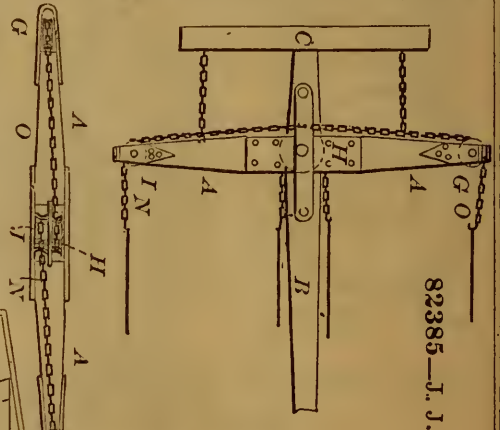
82383—Clark & Ferguson—*Mop Head.*



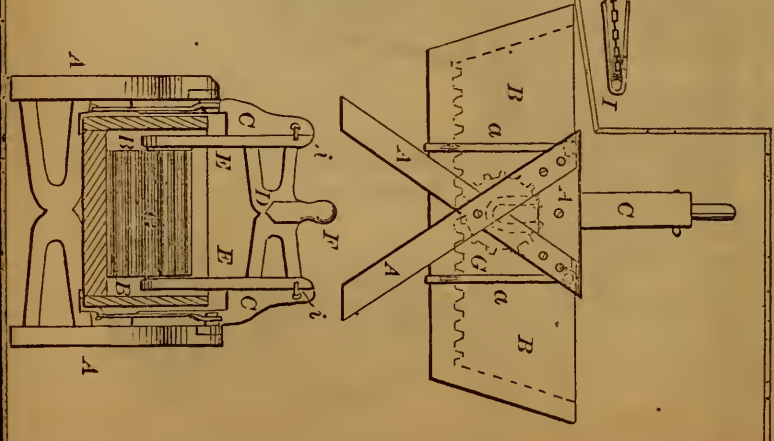
82384—W. Clifford—*Wagon Jack.*



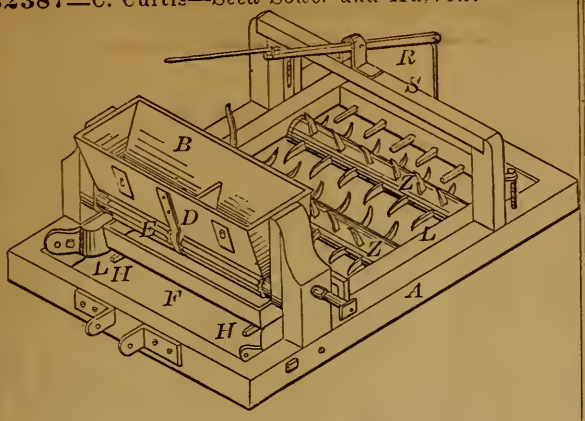
82385—J. J. Connelly—*Equalizer.*



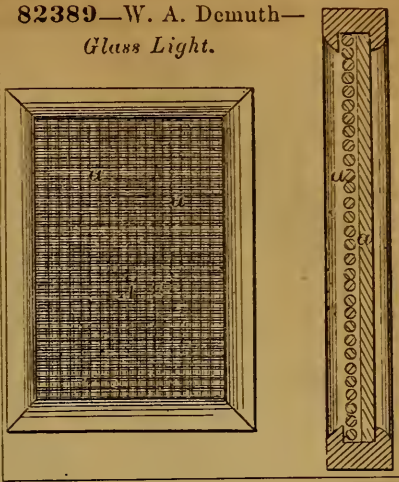
82386—M. Culler—*Washing Machine.*



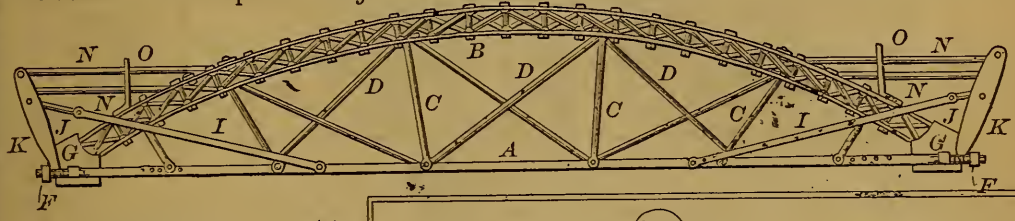
82387—C. Curtis—*Seed Sower and Harrow.*

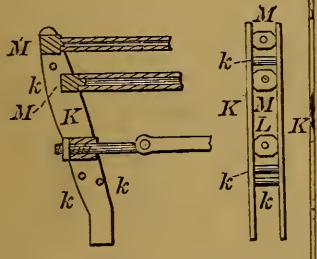


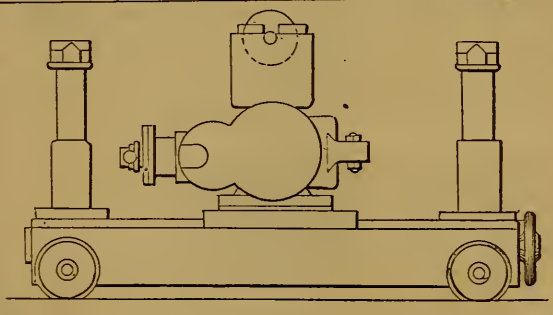
82389—W. A. Demuth—*Glass Light.*

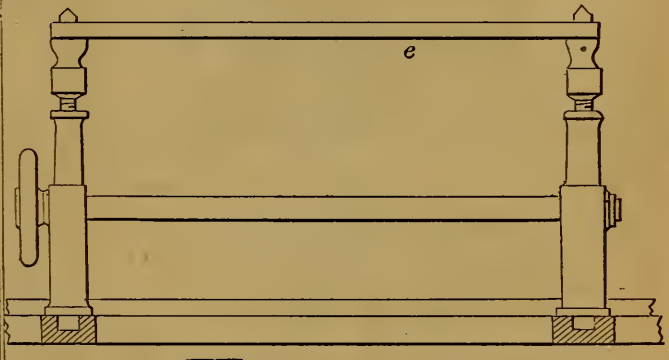


82388—J. Davenport—*Bridge.*

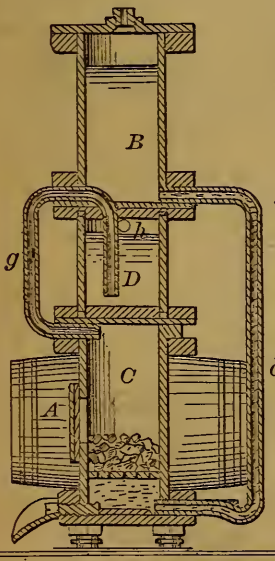




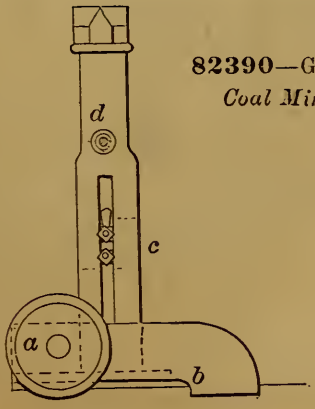




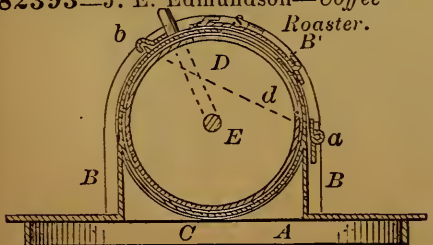
82394—R. Eickemeyer—*For Preserving Beer.*

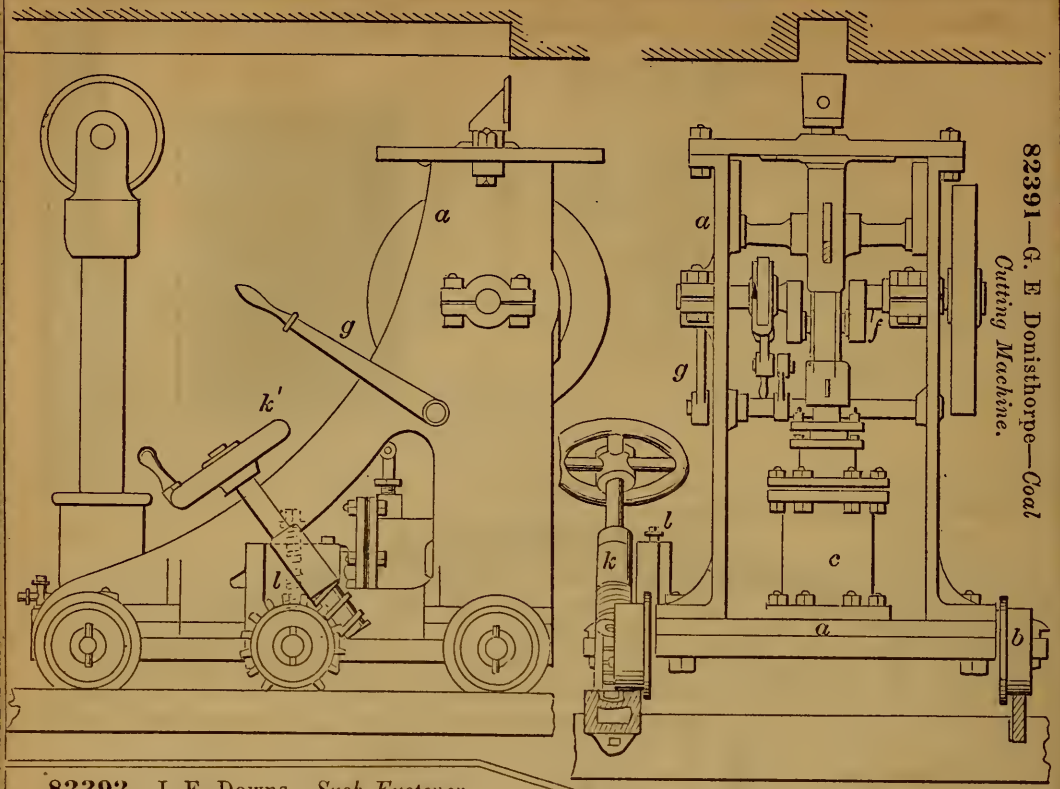


82390—G. E. Donisthorpe—*Coal Mining Machine.*



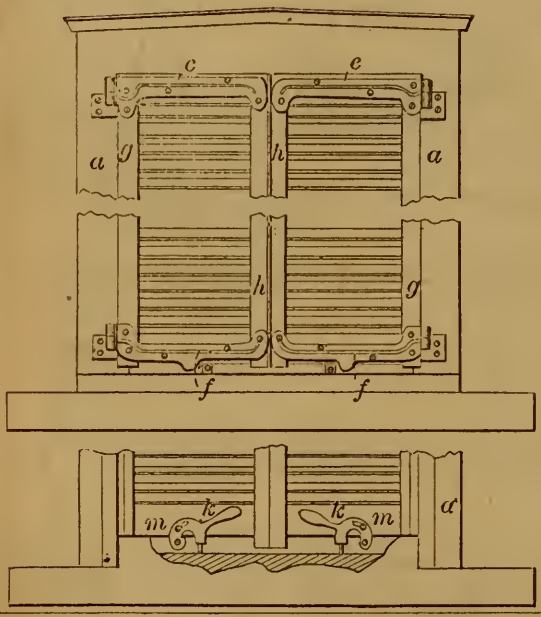
82393—J. E. Edmundson—*Coffee Roaster.*

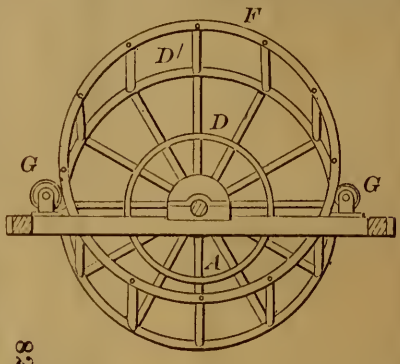




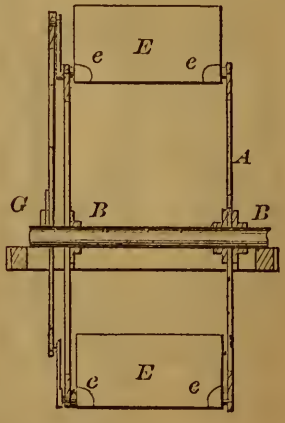
82391—G. E Donisthorpe—*Coal Cutting Machine.*

82392—J. E. Downs—*Sash Fastener.*

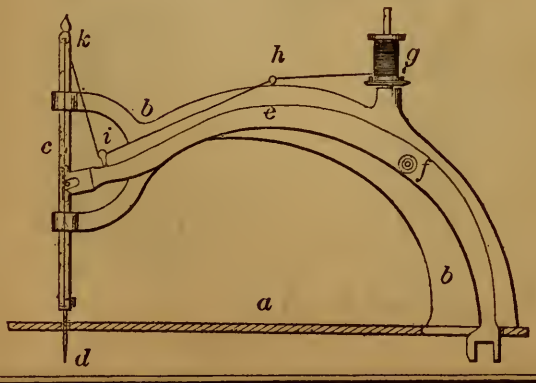




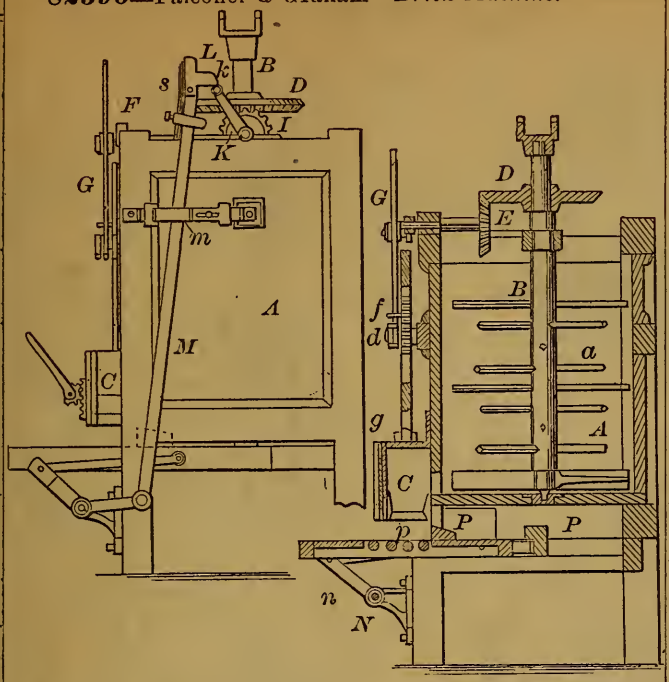
82395—P. Emerson—*Paddle Wheel.*



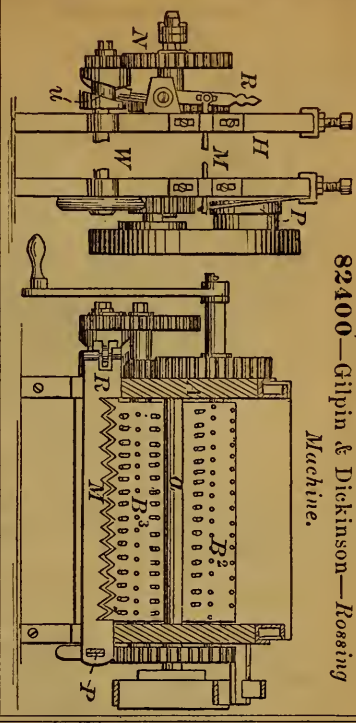
82397—J. Fanning—*Sewing Machine.*



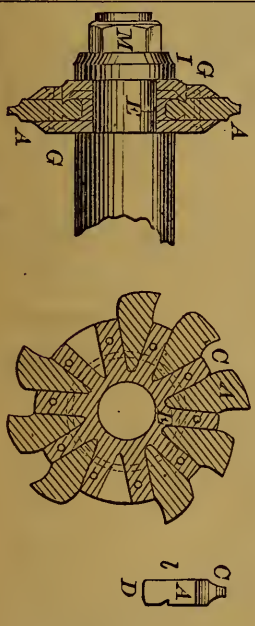
82396—Falconer & Graham—*Brick Machine.*



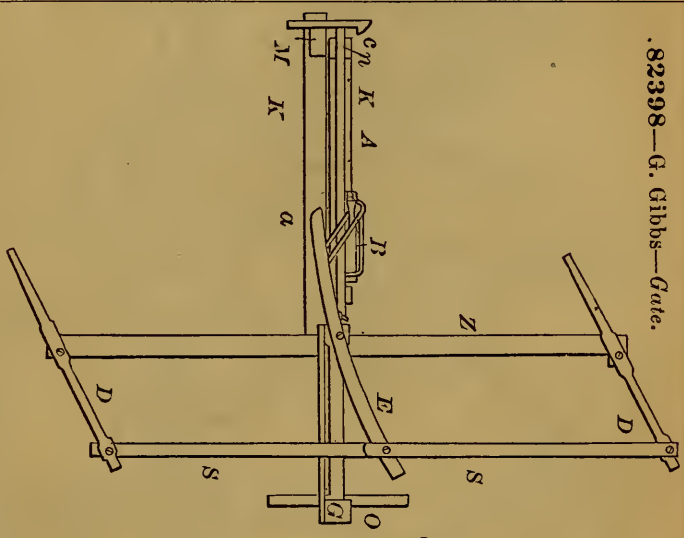
82400—Gilpin & Dickinson—*Rossing Machine.*



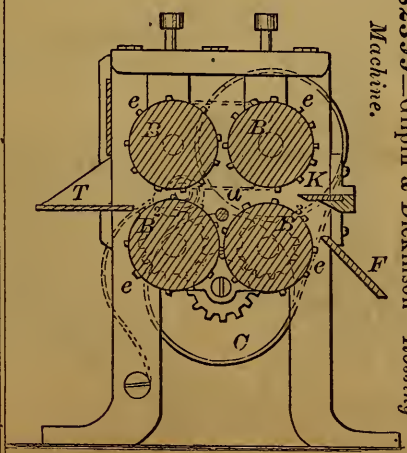
82402—J. Harrington—*Gear Cutting Tool.*



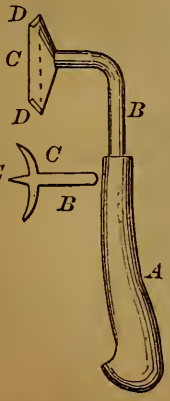
82398—G. Gibbs—*Gate.*



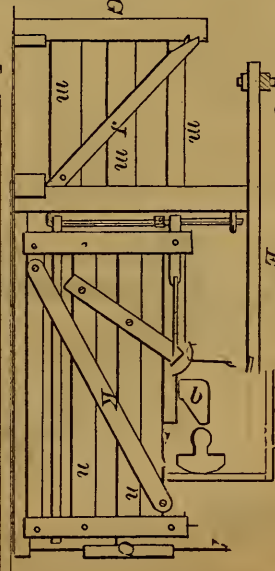
82399—Gilpin & Dickinson—*Rossing Machine.*



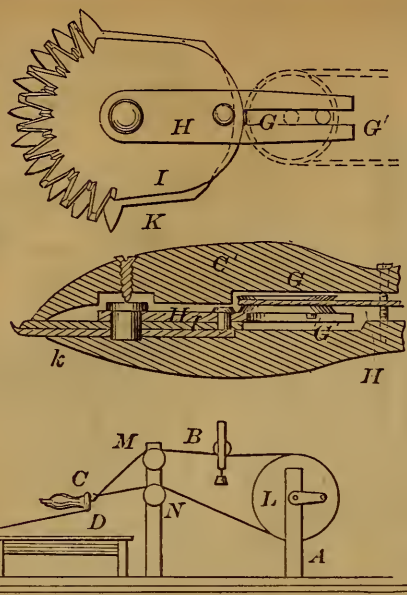
82403—J. Harrington—*Knife.*



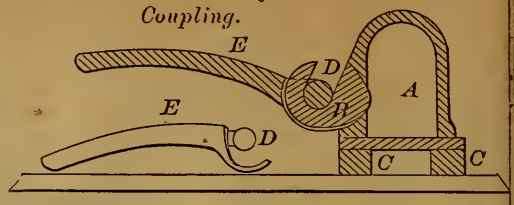
Latch and Lock.



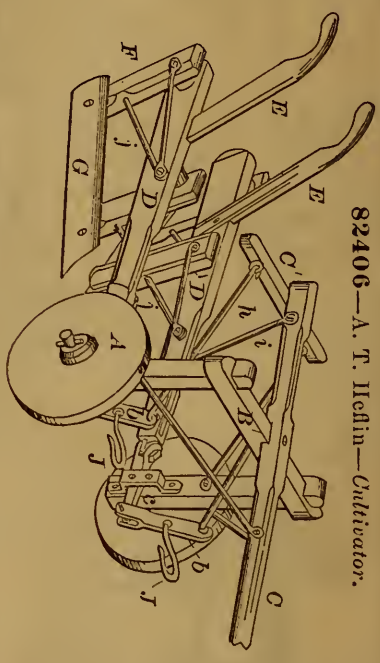
82404—Harsin & Sanders—*For Shearing Sheep.*



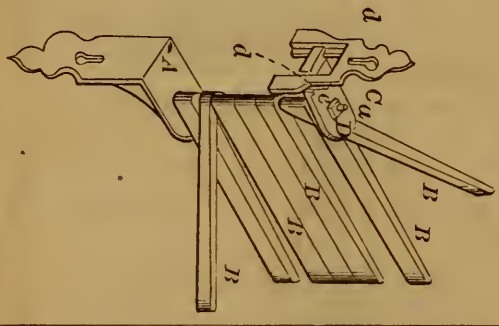
82405—Haverly & Tibbitts—*Thill Coupling.*



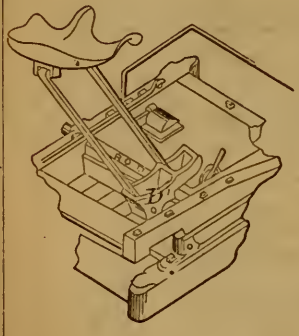
82406—A. T. Heflin—*Cultivator.*



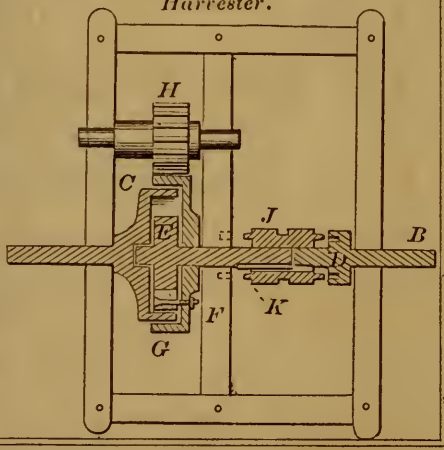
82408—A. S. Hopson—*Clothes Dryer.*



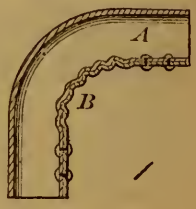
82412—M. G. Hubbard—*Harvester.*

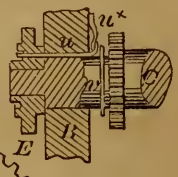


82410—M. G. Hubbard—*Harvester.*

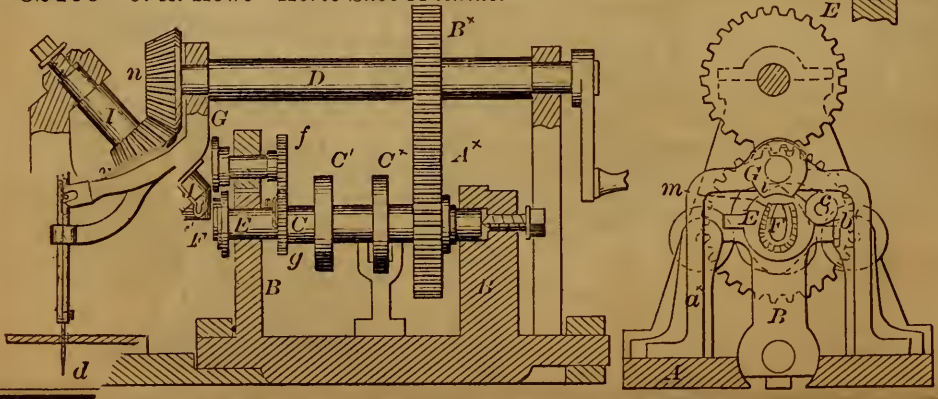


82407—C. Hoeller—*Stove Pipe Elbow.*

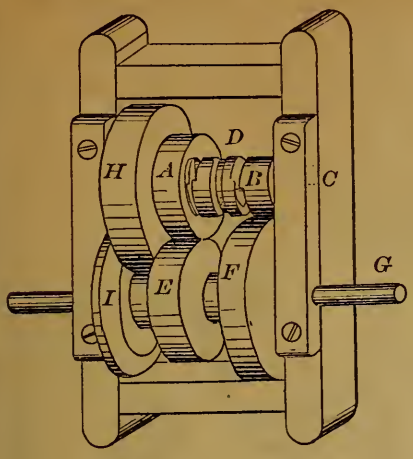




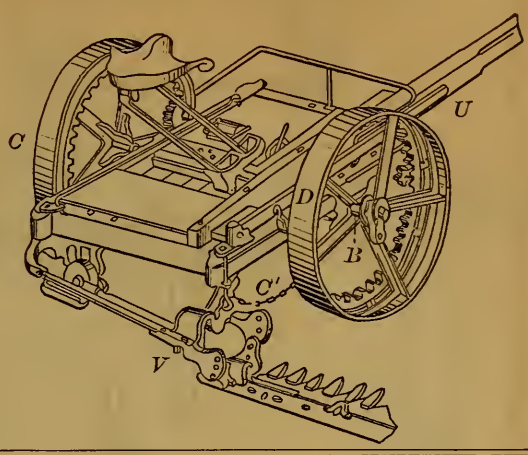
82409—O. A. Howe—*Horse Shoe Machine.*



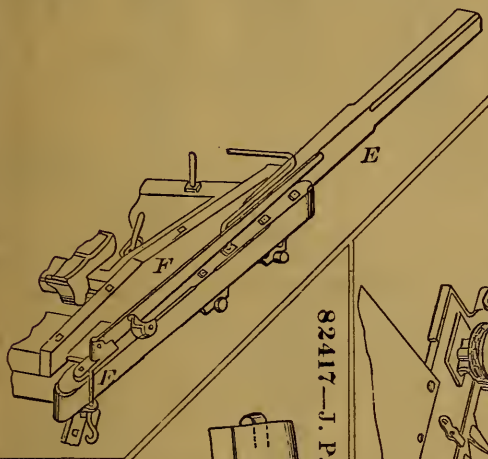
82411—M. G. Hubbard—*Harvester.*



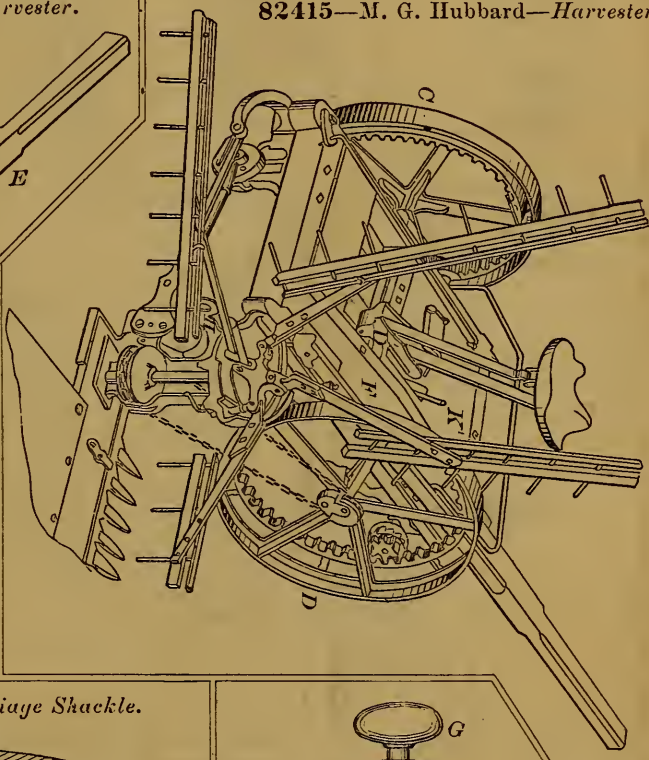
82413—M. G. Hubbard—*Harvester.*



82414—M. G. Hubbard—*Harvester.*

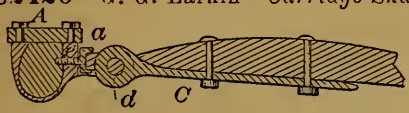


82415—M. G. Hubbard—*Harvester.*

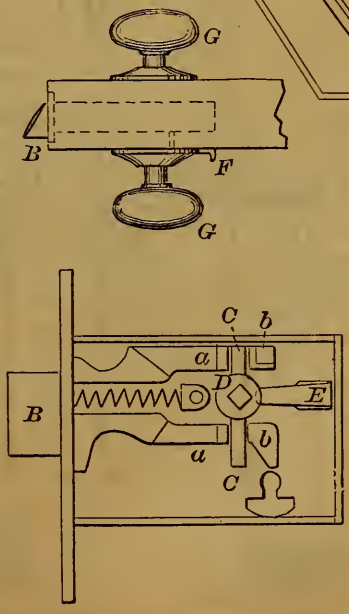


82417—J. P. Jamison—*Boot.*

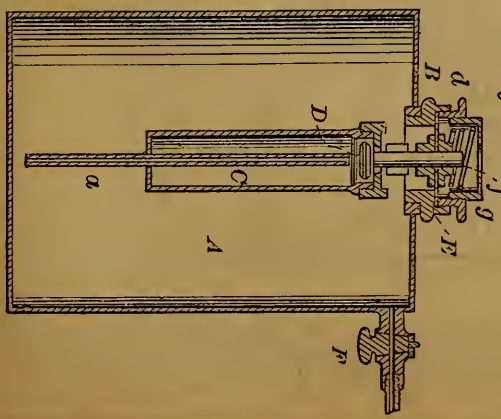
82420—G. G. Larkin—*Carriage Shackle.*



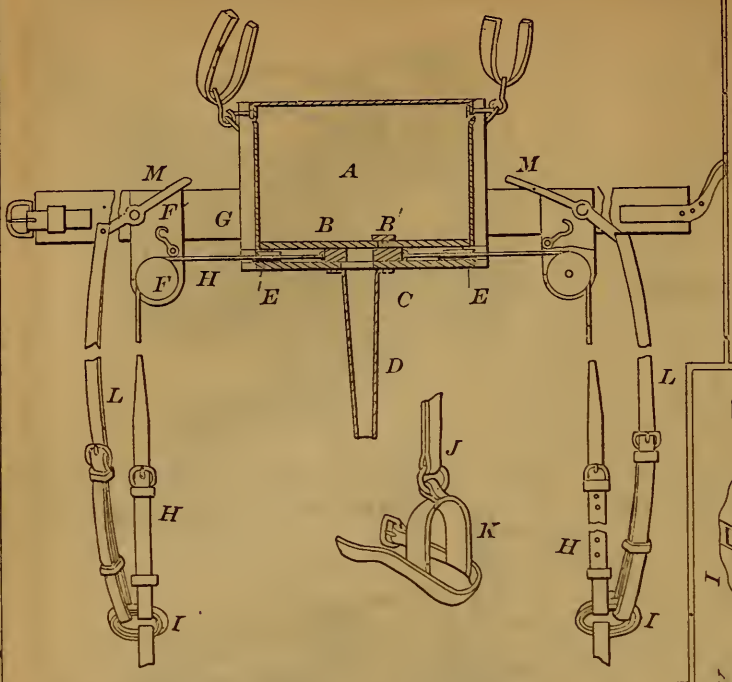
82418—F. L. Johnson—*Latch and Lock.*



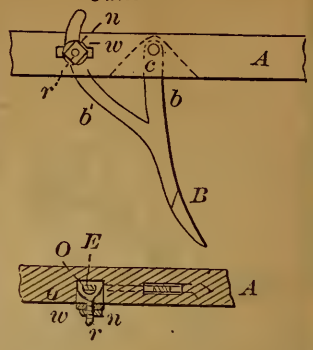
82421—W. H. Lauvach—*Fire Extinguisher.*



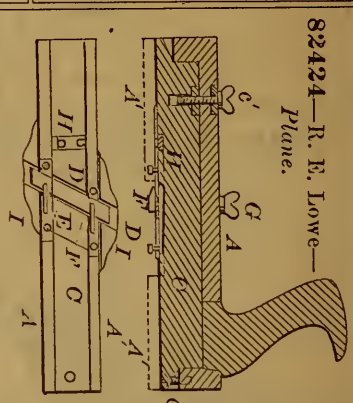
82422—J. L. Leas—*Corn Planter.*



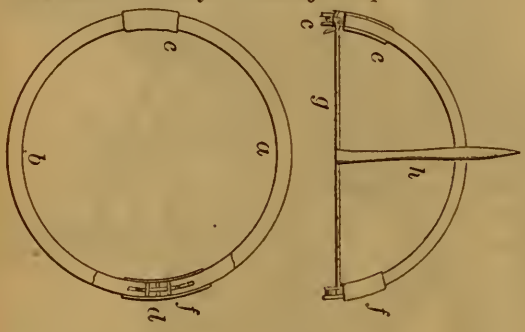
82423—Lowth & Howe—*Cultivator.*



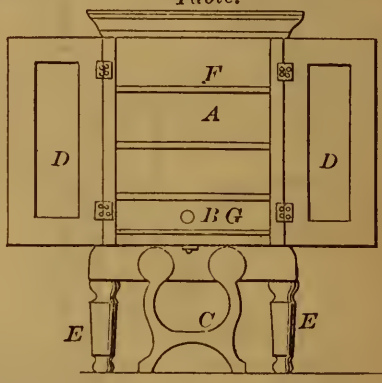
82424—R. E. Lowe—*Plane.*



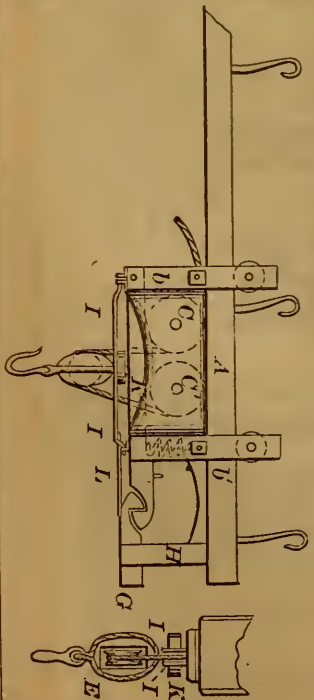
82425—T. Lucey—*Driving Hoop.*



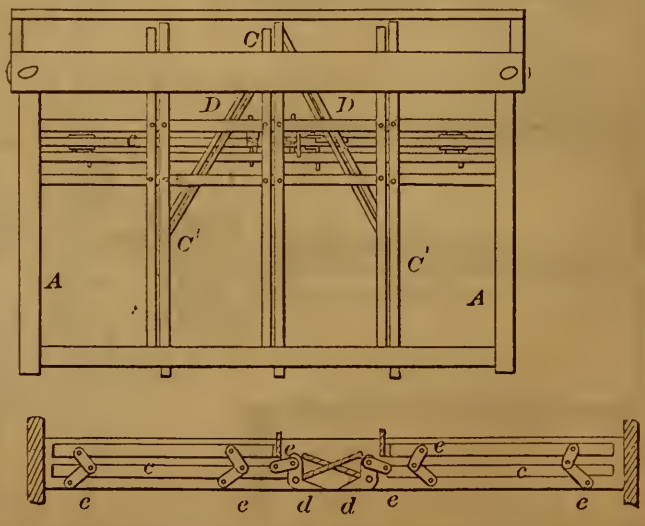
82426—J. C. Mack—*Cupboard and Table.*



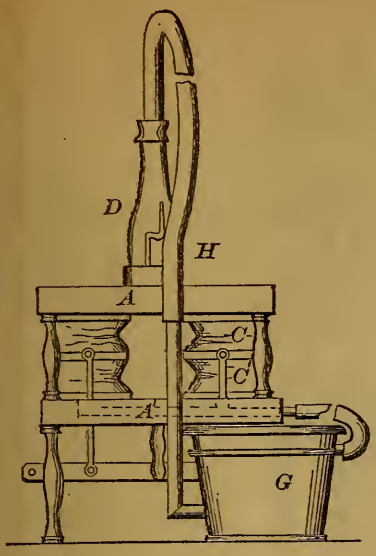
82427—H. & L. M. McCown—*Hay Elevator.*



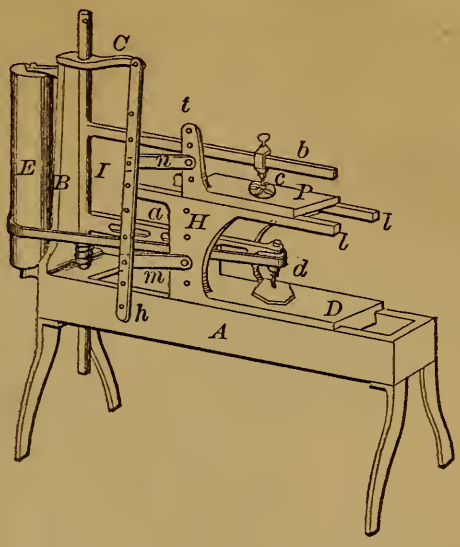
82428—F. B. McGregor—*Piano.*



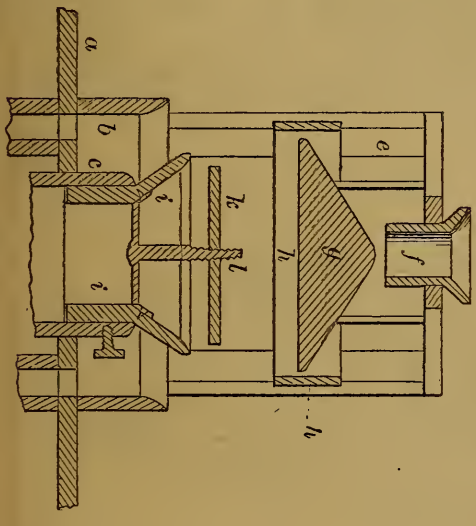
82429—D. M. Mefford—*Preserving Fruit*



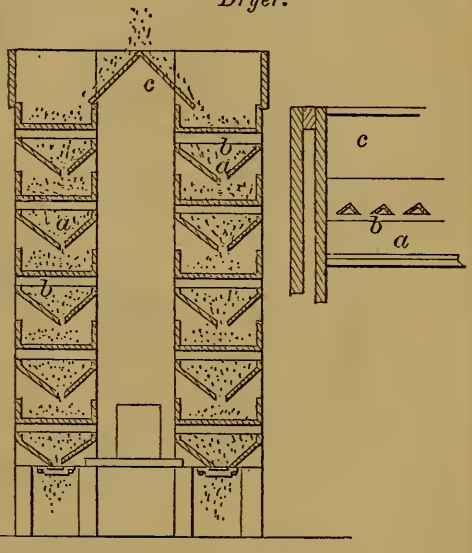
82430—G. Merrill—*Carving Machine.*



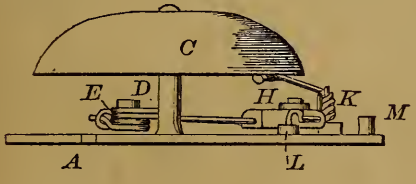
82431—Mills & Chichester—*Grain Separator.*

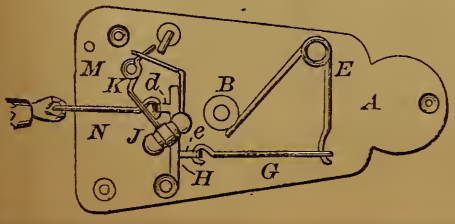


82432—Mills & Chichester—*Grain Dryer.*

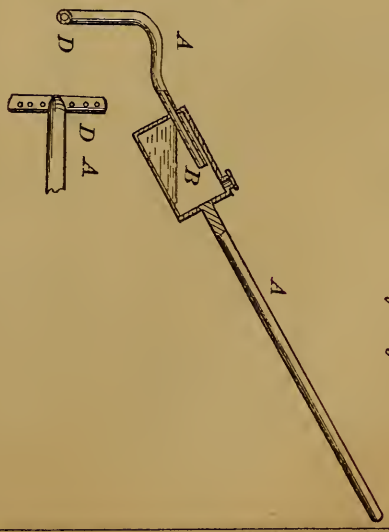


82434—W. H. Nichols—*Door Bell.*

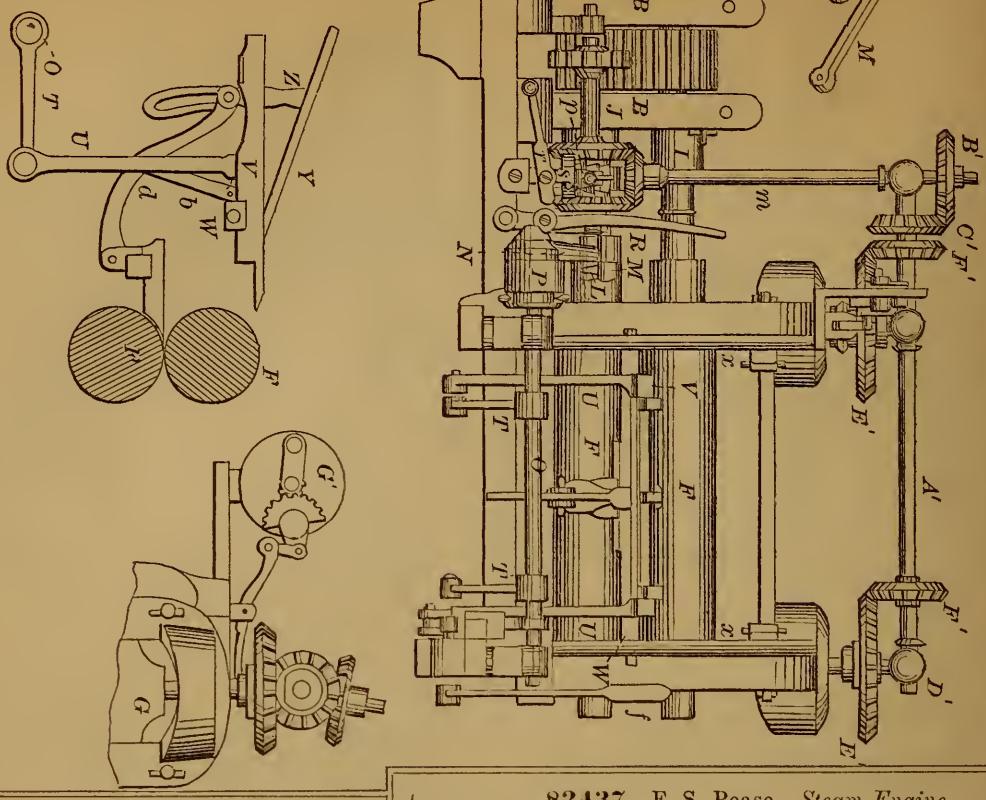




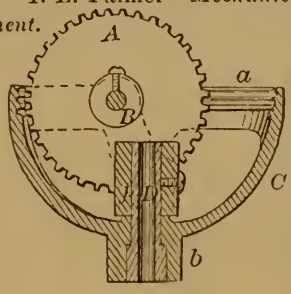
82435—H. S. Osborn—*Refining Cast Iron.*



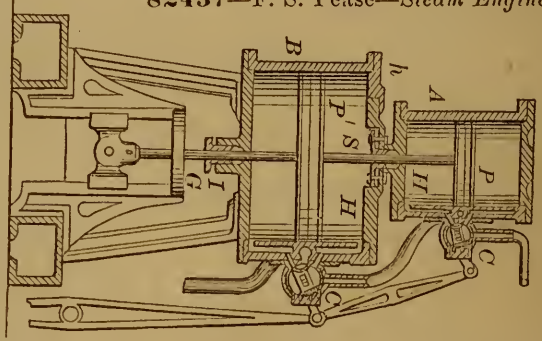
82433—Nevergold & Brose—*Rolling Mill.*



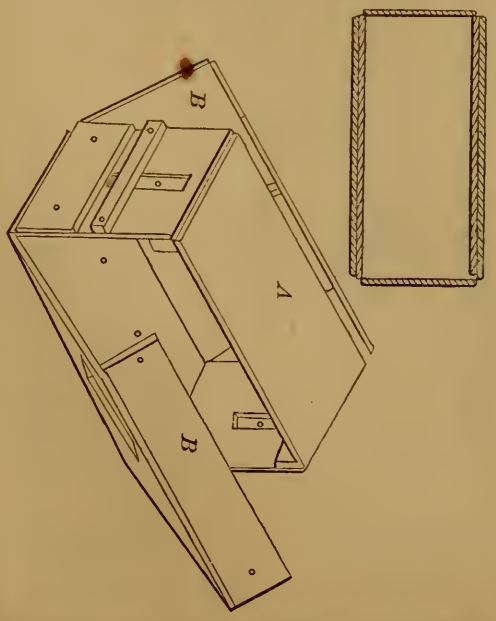
82436—I. E. Palmer—*Mechanical Movement.*



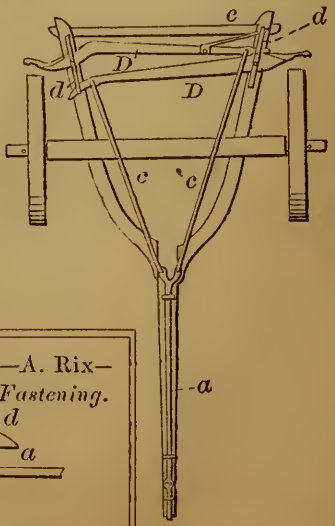
82437—F. S. Pease—*Steam Engine.*



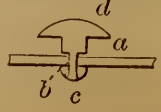
82438—J. M. Perkins—*Fruit Box.*



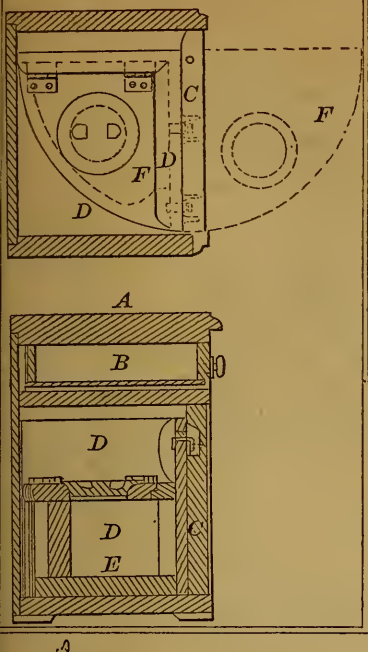
82439—J. S. Pfrimmer—*Wagon Brake.*



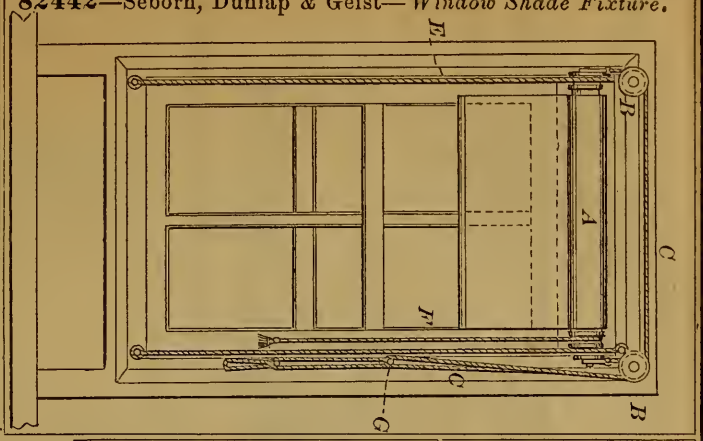
82440—A. Rix—*Button Fastening.*



82441—V. Schreck—*Wash Stand and Sick Chair.*

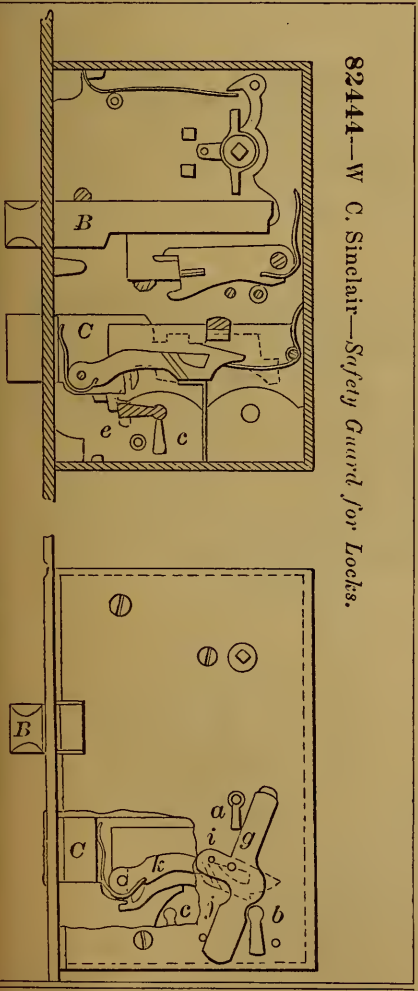


82442—Seborn, Dunlap & Geist—*Window Shade Fixture.*

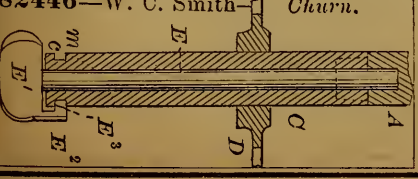


82443—S. Shadduck—*Draught Equalizer.*

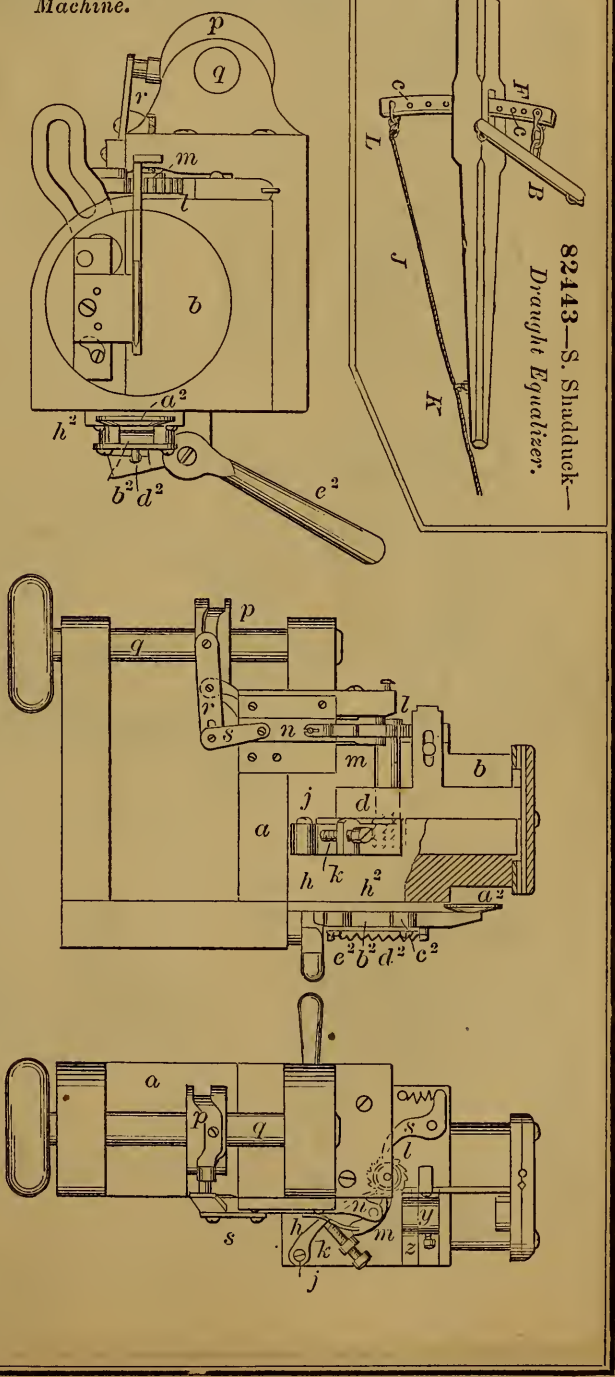
82444—W. C. Sinclair—*Safety Guard for Locks.*



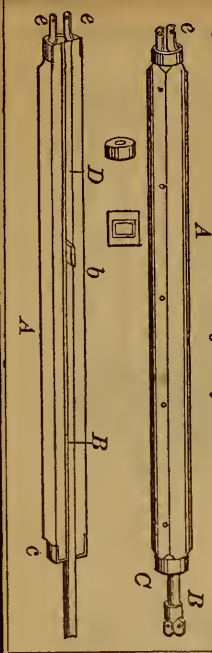
82446—W. C. Smith—*Churn.*



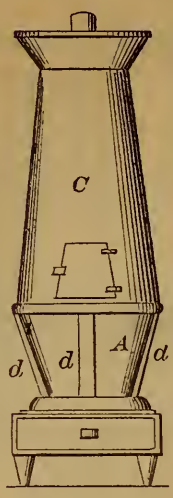
82448—J. W. Soule—*Pegging Machine.*



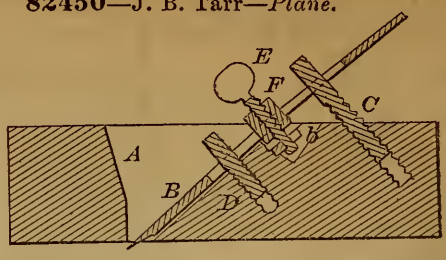
82447—D. Snell—*Tumbling Shaft.*

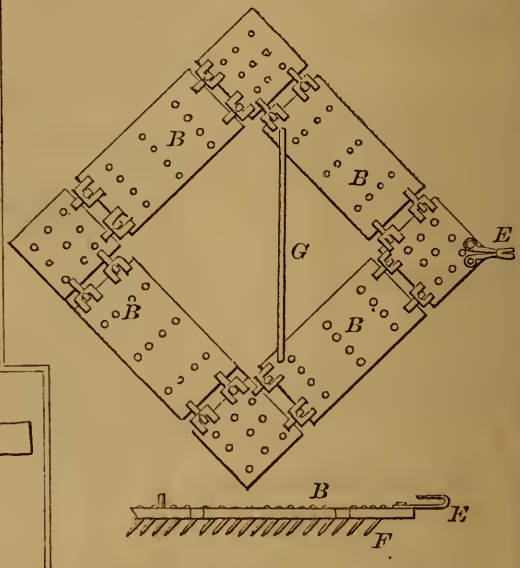


82449—S. B. Stewart—*Coal Stove.*

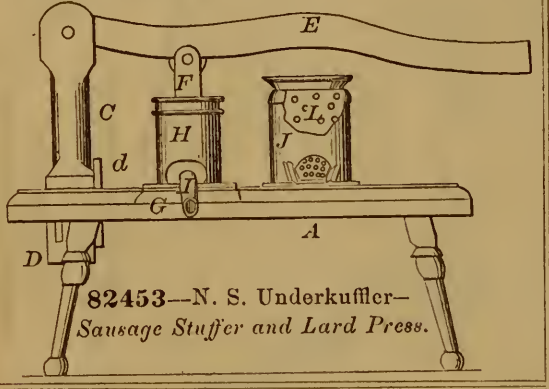


82450—J. B. Tarr—*Plane.*



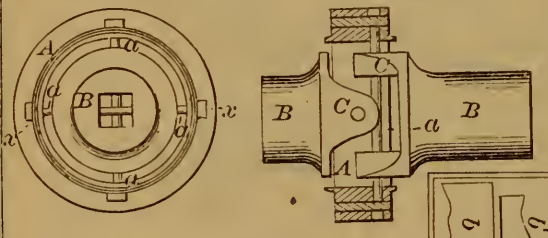


82451—J. J. Thomas—*Harrow.*

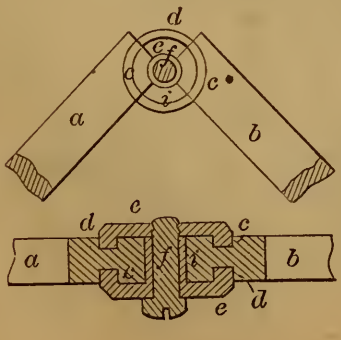


82453—N. S. Underkuffler—*Sausage Stuffer and Lard Press.*

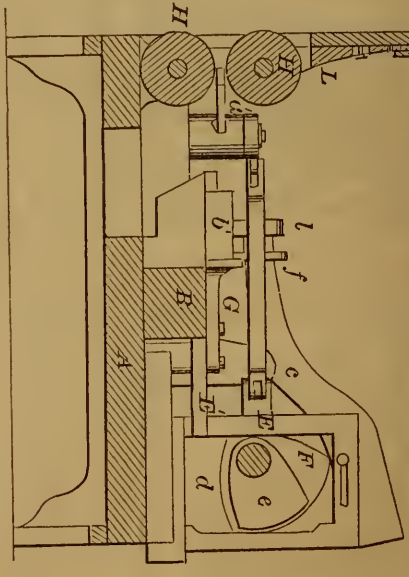
82455—J. S. Upton—*Shaft Coupling.*

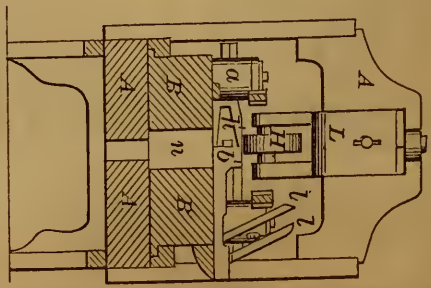


82456—E. W. Waite—*Joint for Carriage Top Props.*

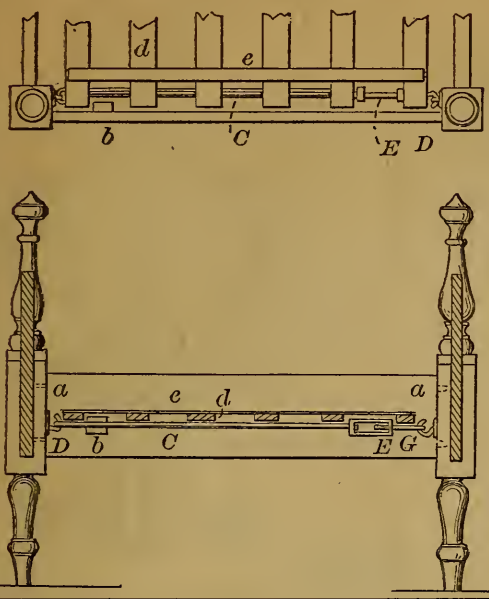


82452—L. Thomas—*Spike Machine.*

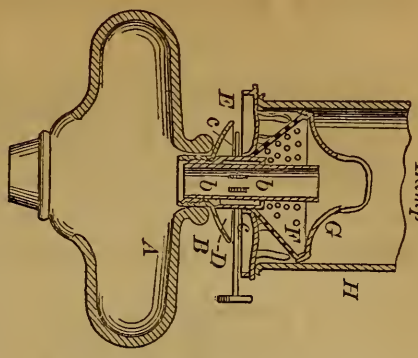




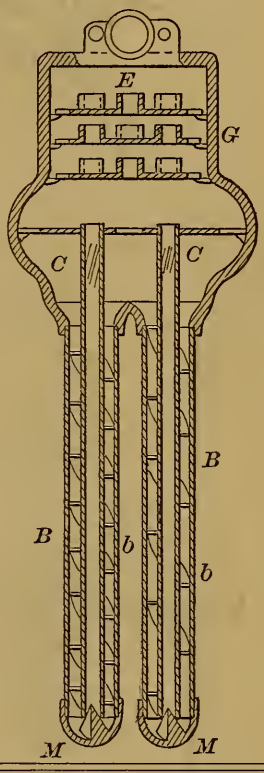
82457—Ward & Bennage—*Bedstead.*



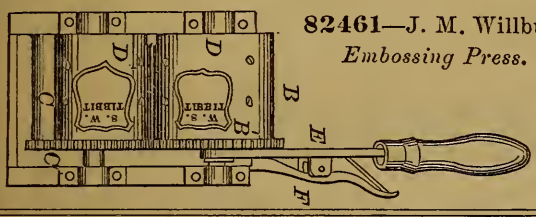
82458—Weber & Reimann—*Lamp*



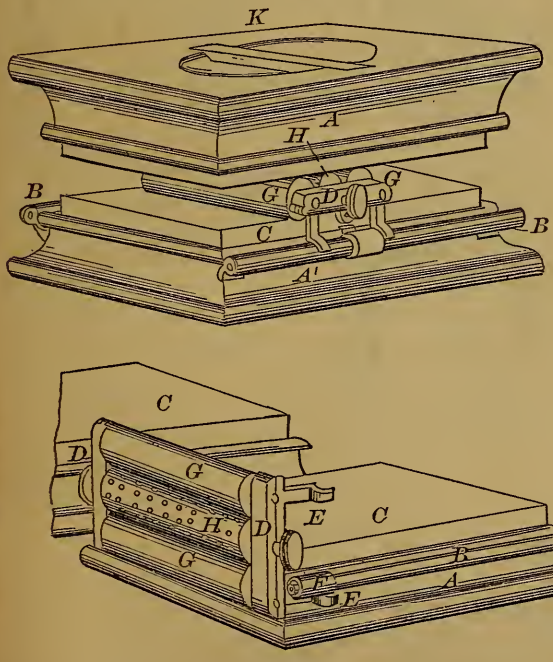
82460—S. L. Wiegand—*Steam Generator.*



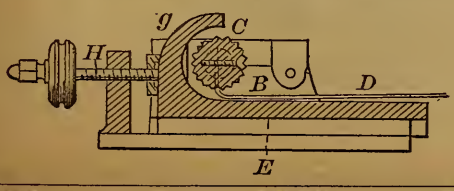
82461—J. M. Willbur—*Embossing Press.*



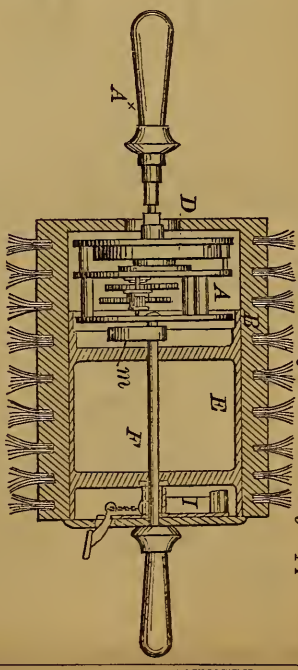
82462—J. M. Willbur—*Ink Pad.*



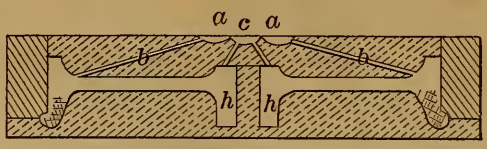
82463—J. M. Willbur—*For Forming Stereotype Plates.*



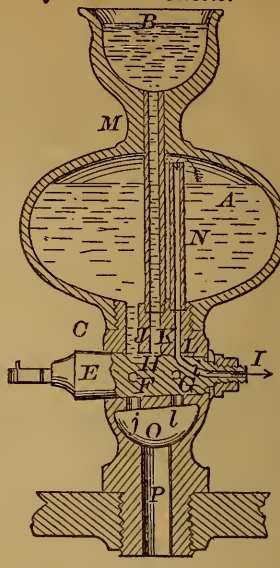
82465—W. H. Willson—*Brushing and Polishing Apparatus.*



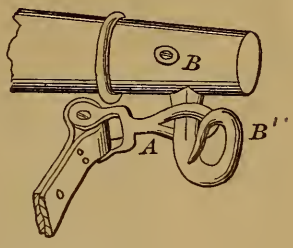
82466—W. Wilmington—*Car Wheel.*



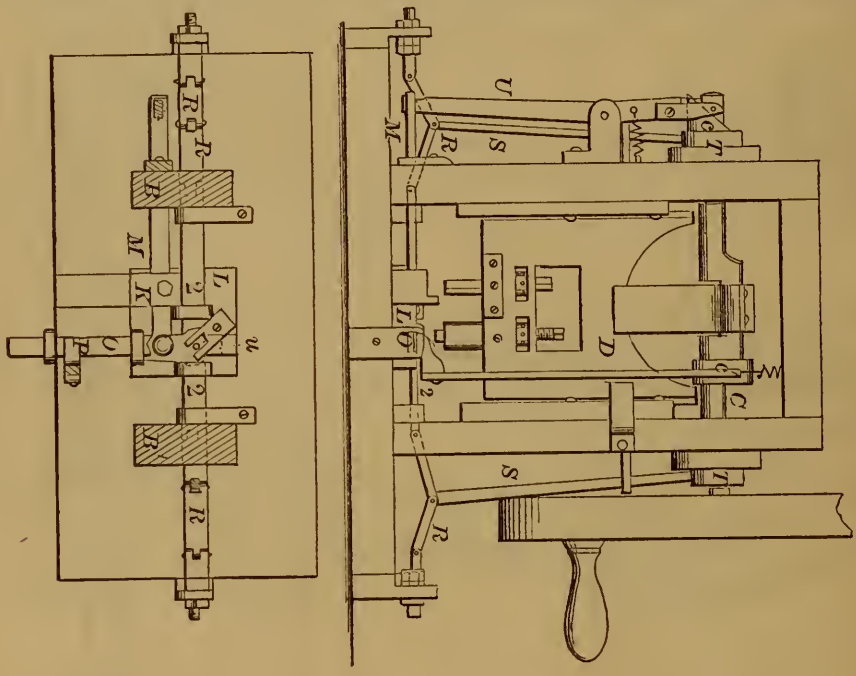
82467—C. A. Wilson—*Oil Globe for Steam Chests.*



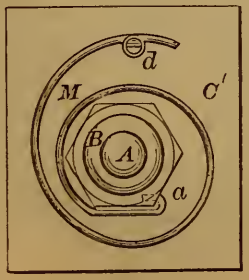
82469—J. Wood—*Whiffletree Hook.*

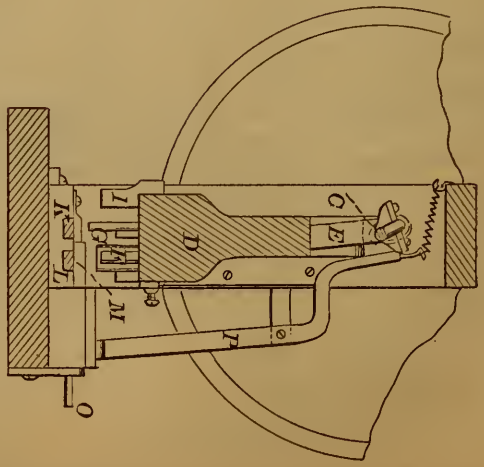


82470—O. W. Yale—*Making Nuts.*

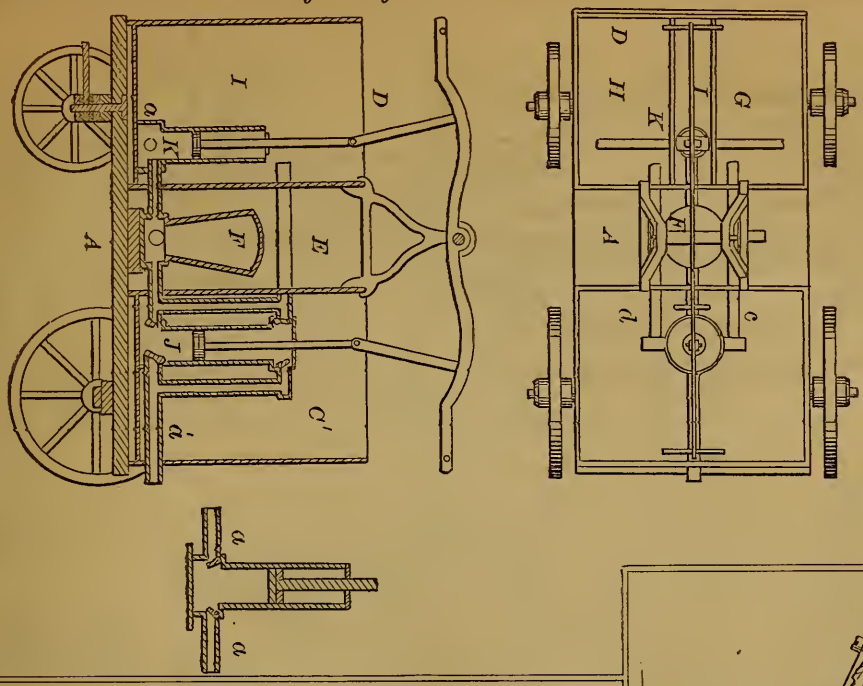


82473—Olney, Logan & Fisher—*Lock Nut and Tightener.*

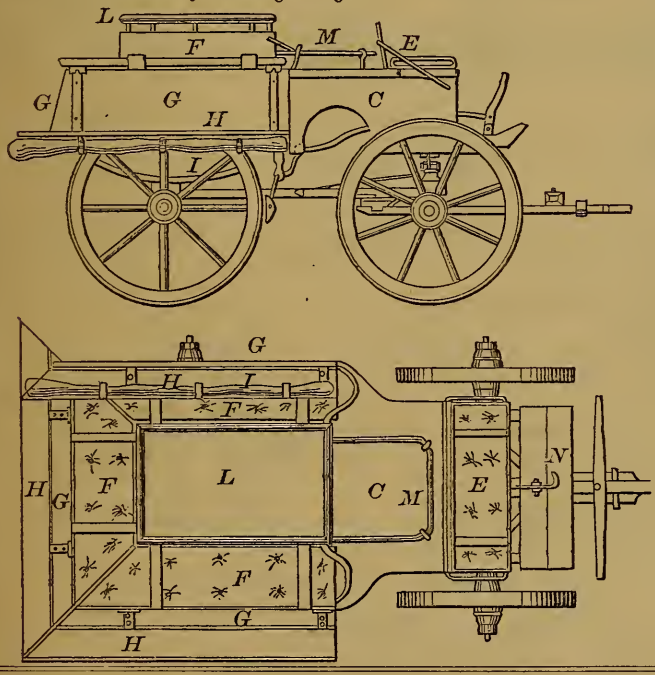




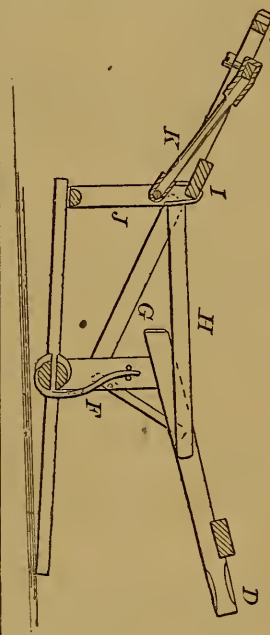
82471—G. Clark—*For Extinguishing Fires.*



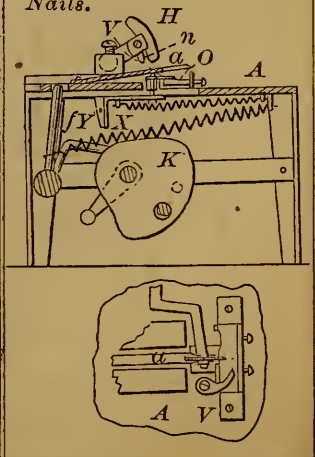
82472—A. Sully—*Army Wagon.*



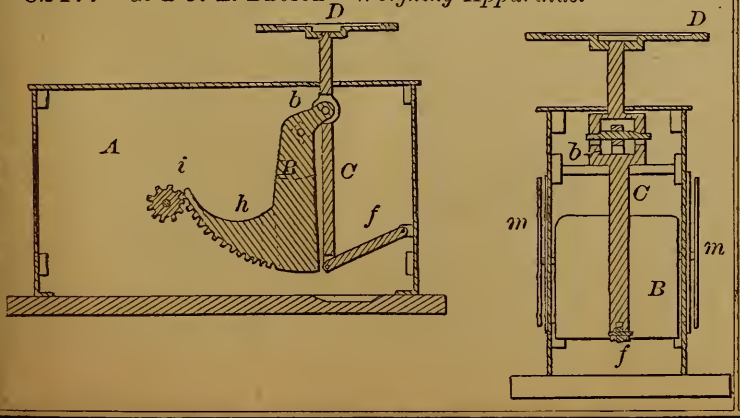
82474—J. W. Acker—*Horse Rake.*



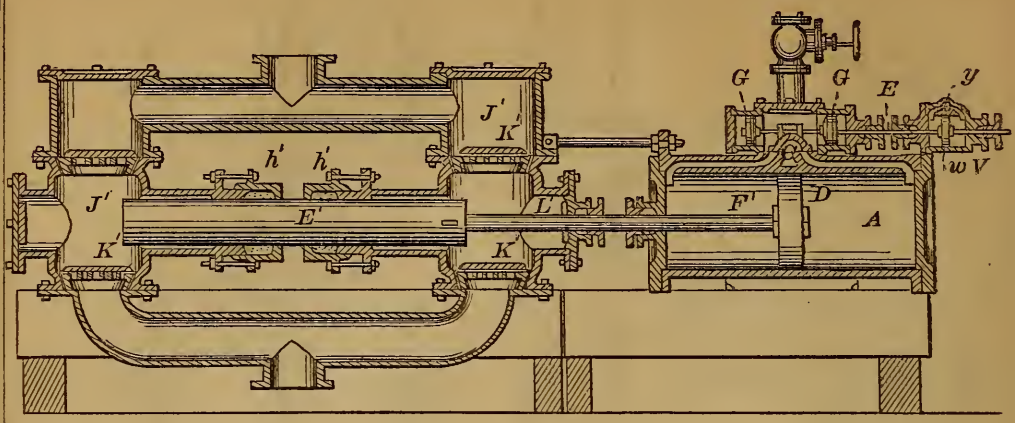
82476—D. Armstrong—*For Pointing Horse Shoe Nails.*

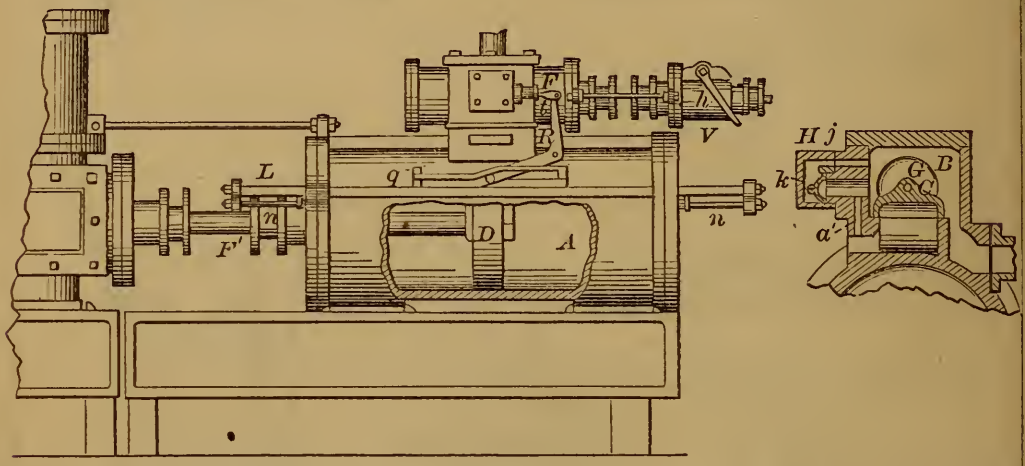


82477—G. & J. L. Babson—*Weighing Apparatus.*

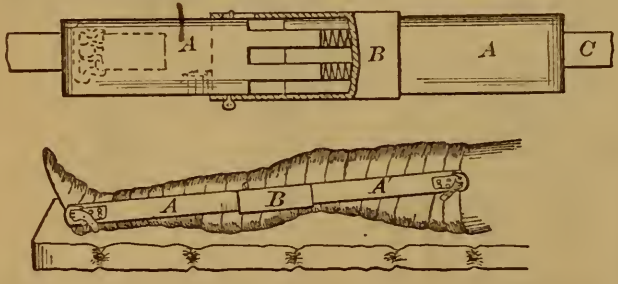


82475—R. Allison—*Pumping Engine.*

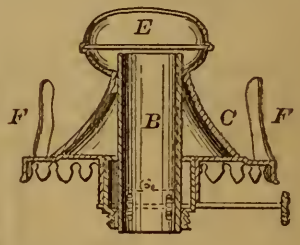




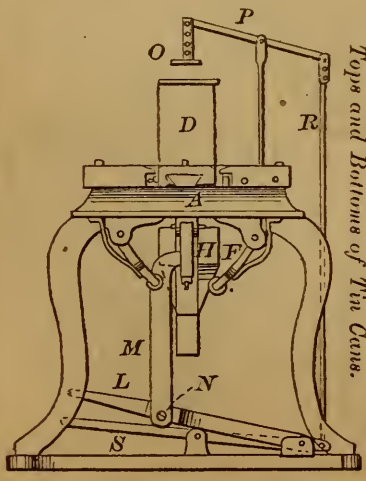
82478—H. D. Ballard—*Surgical Splint.*



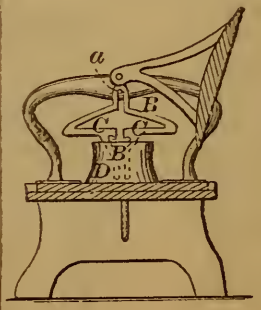
82480—E. C. Blakeslee—*Lamp.*



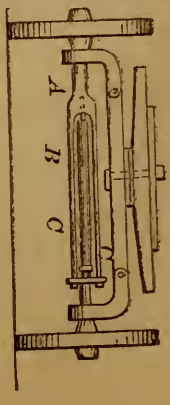
82481—E. W. Bliss—*For Bending the Tops and Bottoms of Tin Cans.*



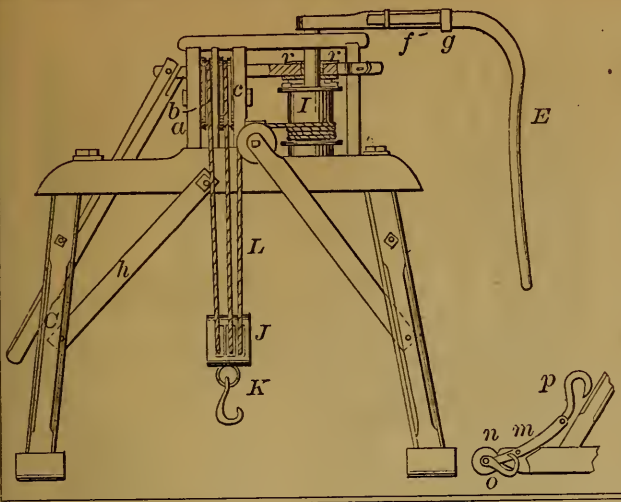
82482—H. S. Blood—*Railway Car Seat.*



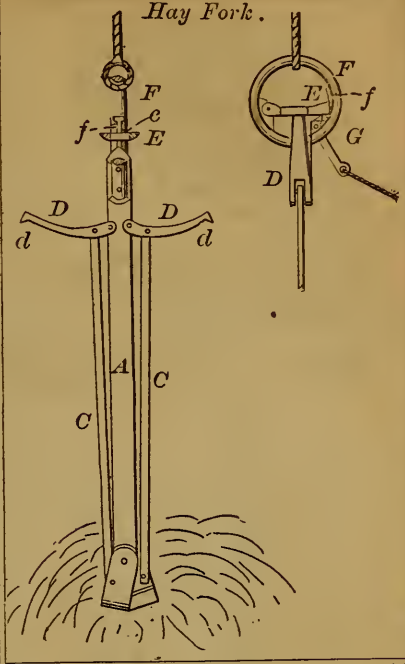
82483—W. D. Bollinger—*Carriage Axle.*



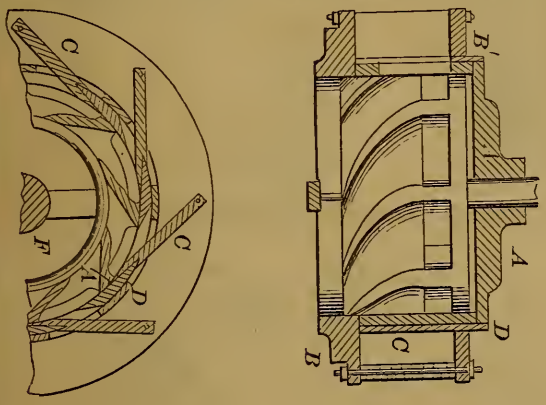
82484—T. J. Booth—*Stump Extractor.*



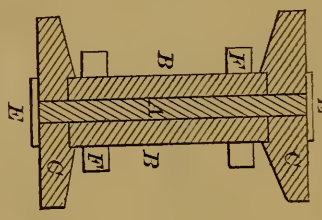
82485—W. D. Brooks—*Horse Hay Fork.*



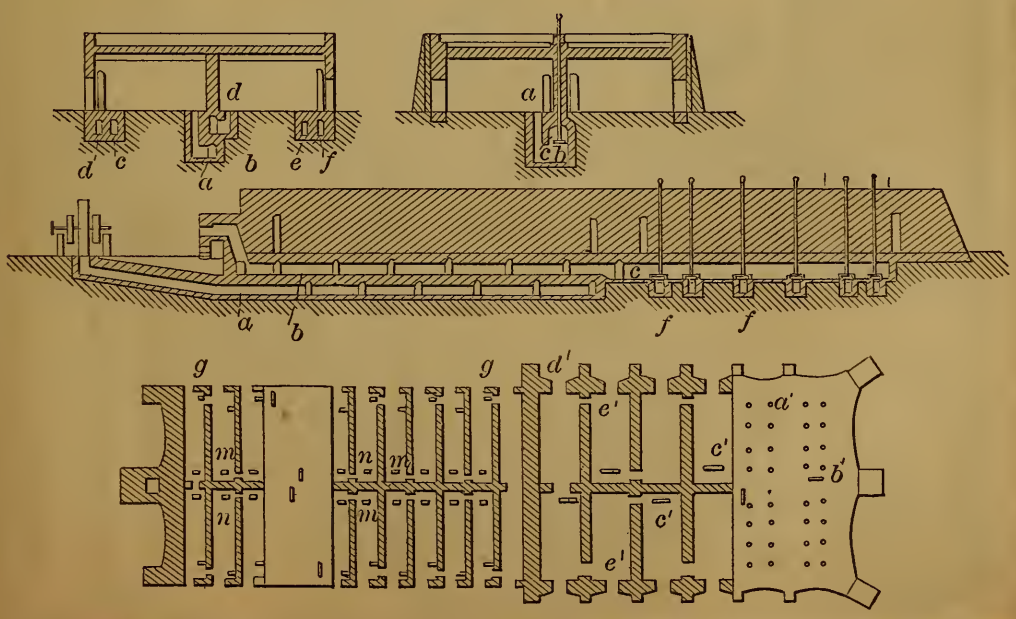
82486—J. D. Bryson—*Water Wheel Casing.*



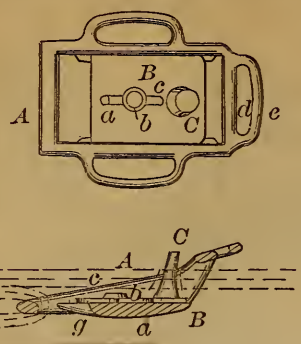
82487—H. T. Buffington, Jr.—*Beam Fagot.*

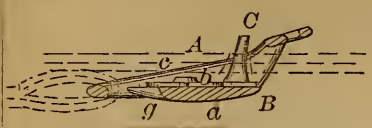


82488—J. Buhrer—*Drying and Burning Kiln.*

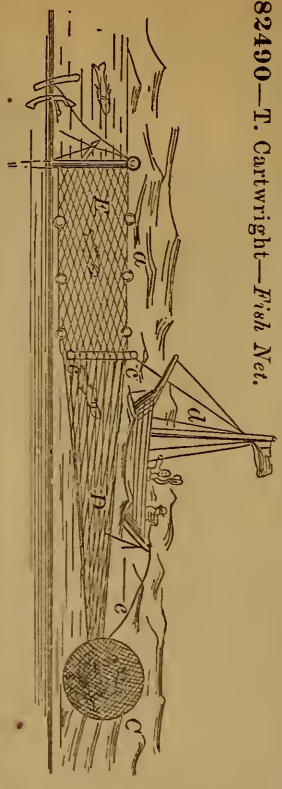


82489—W. G. Bunker—*Buckle.*

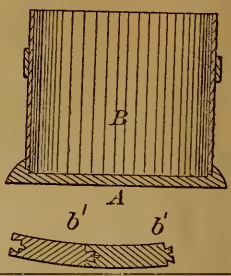




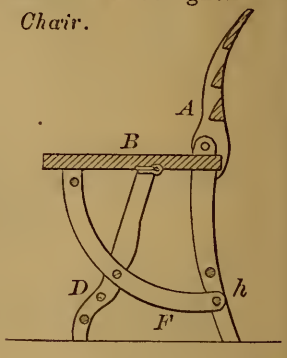
82490—T. Cartwright—*Fish Net.*



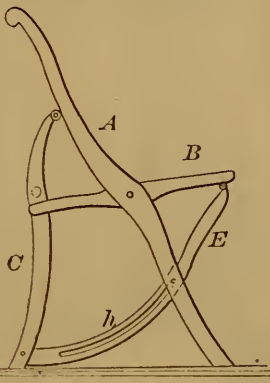
82491—F. Chase—*Zincking or Tinning Bath.*



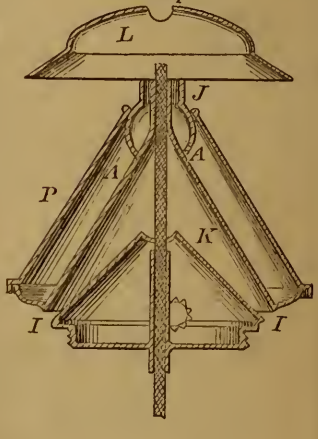
82493—A. Collignon—*Chair.*



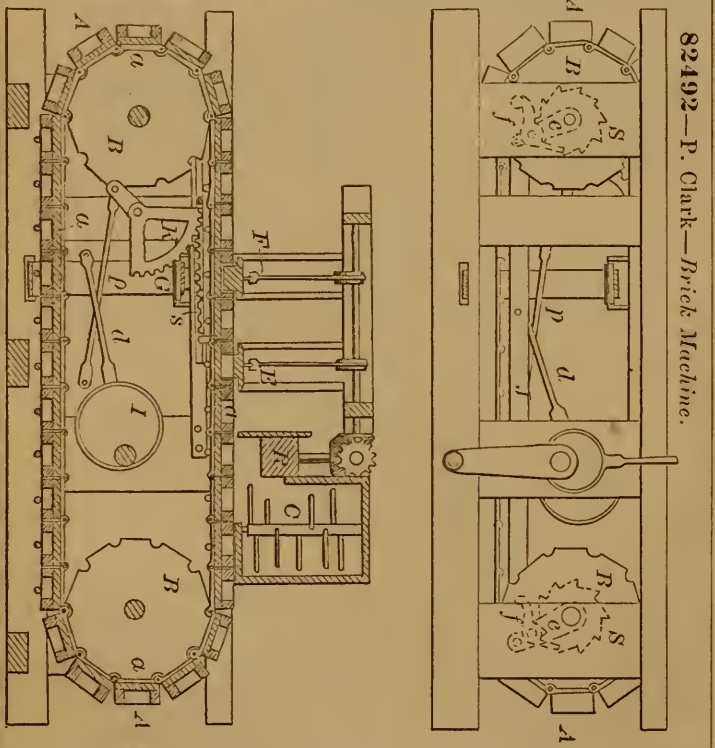
82494—C. O. & N. Collignon—*Chair.*



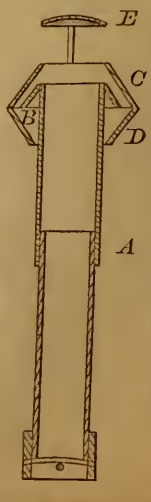
82495—W. R. Cranna—*Lamp.*



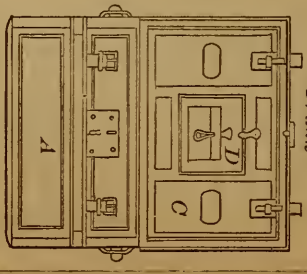
82492—P. Clark—*Brick Machine.*

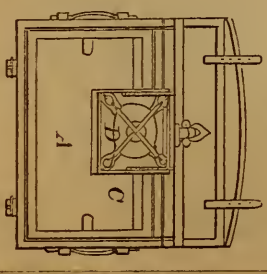


82497—J. J. Currier—*Chimney Cowl.*

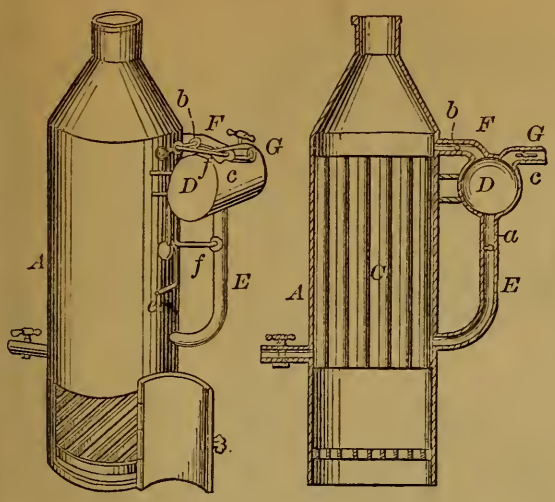


82496—G. Crouch—*Trunk.*

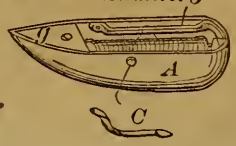




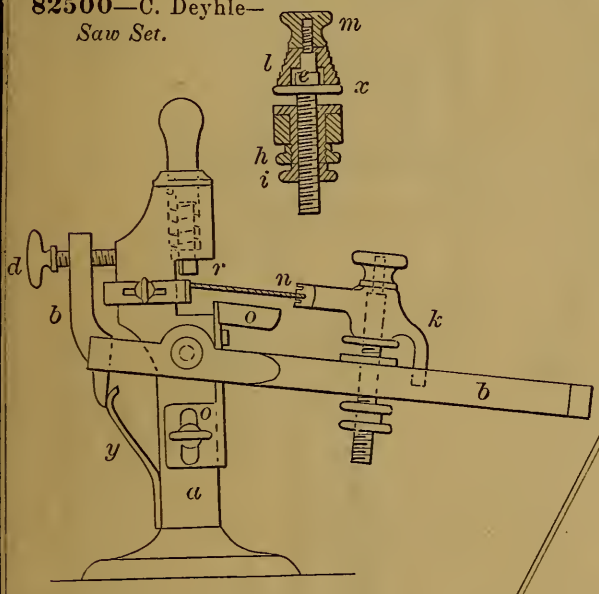
82498—J. A. Davis—*Boiler Feeder.*



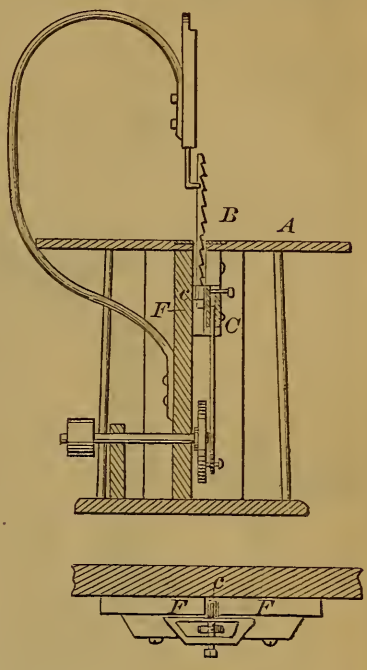
82499—J. A. Davis—*Sewing Machine Shuttle.*



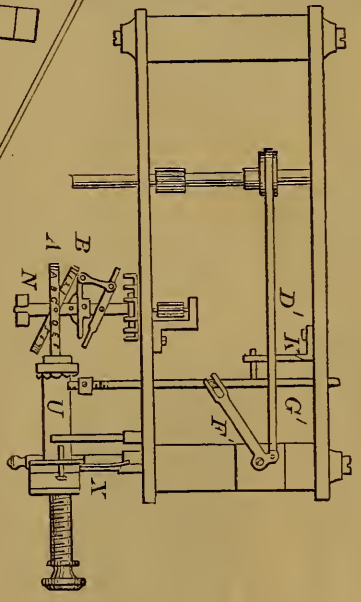
82500—C. Deyhle—*Saw Set.*



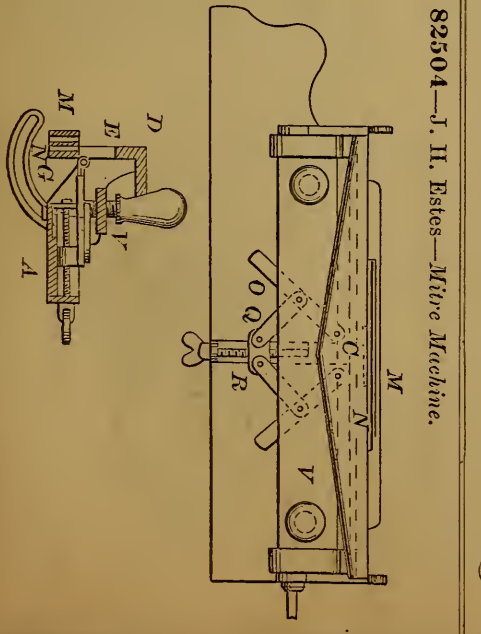
82501—W. Dobson—*Scroll Saw.*

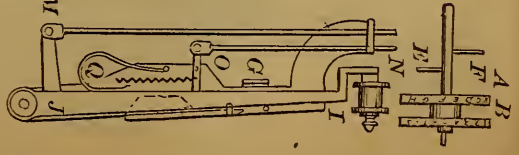


82502—P. A. J. Dujardin—*Printing Telegraph.*

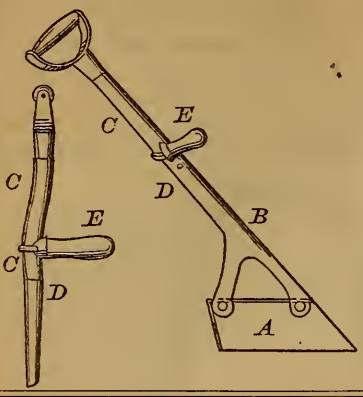


82504—J. H. Estes—*Mitre Machine.*



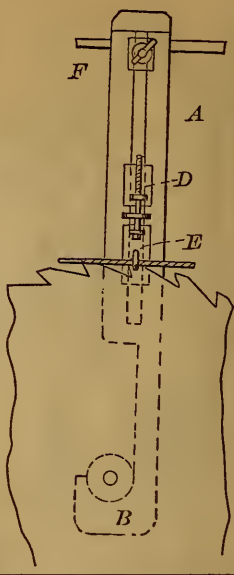


82505—C. A. Fisher—*Hay Knife.*

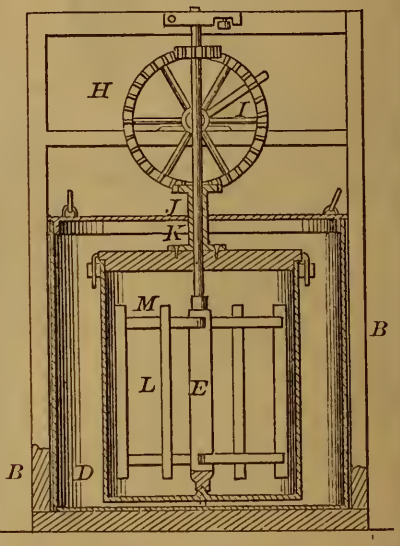


82507—T. E. Wood—*Roofing Composition.*

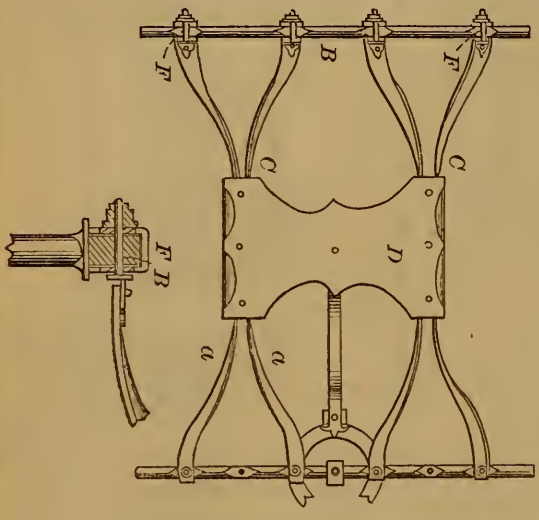
82508—I. France—*For Jointing Circular Saws.*



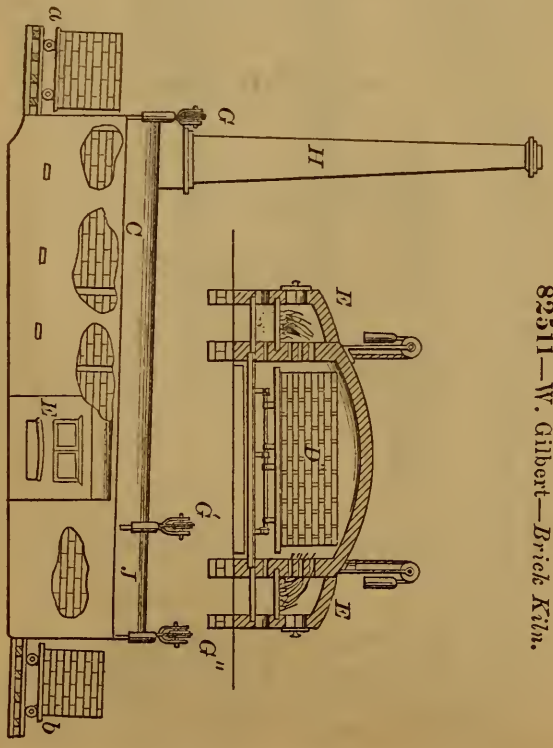
82509—Garloch & Richards—*Ice Cream Freezer.*



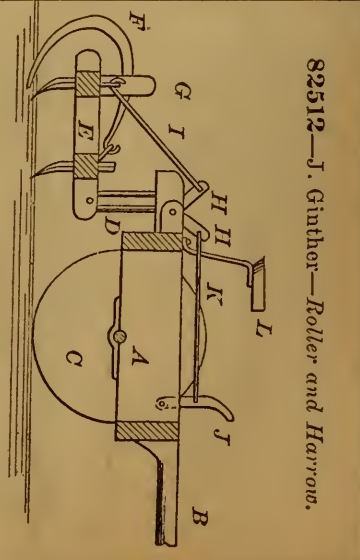
82510—E. L. Gaylord—*Carriage Spring.*



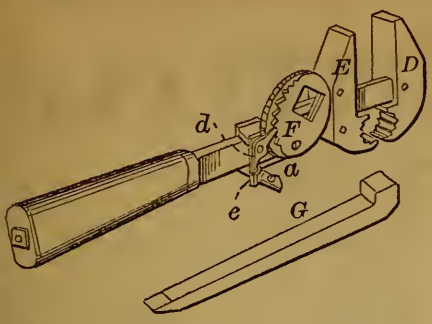
82511—W. Gilbert—*Brick Kiln.*



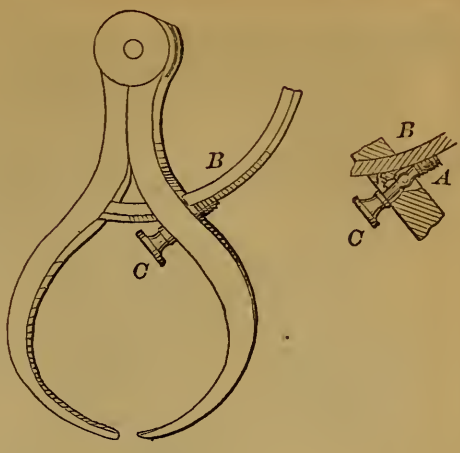
82512—J. Ginther—*Roller and Harrow.*



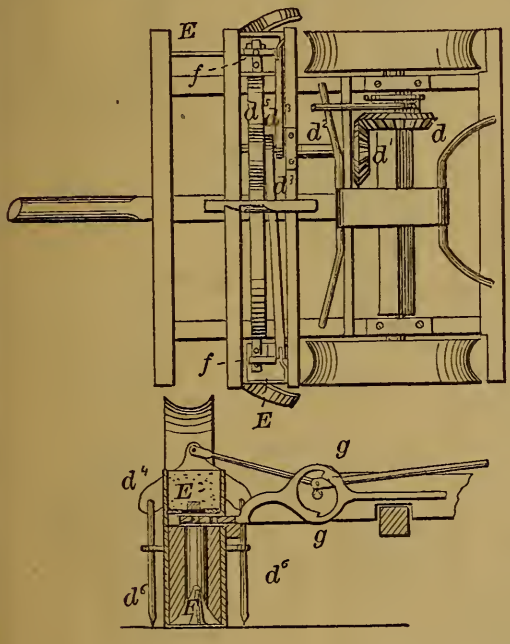
82513—J. Goodin—*Wrench.*



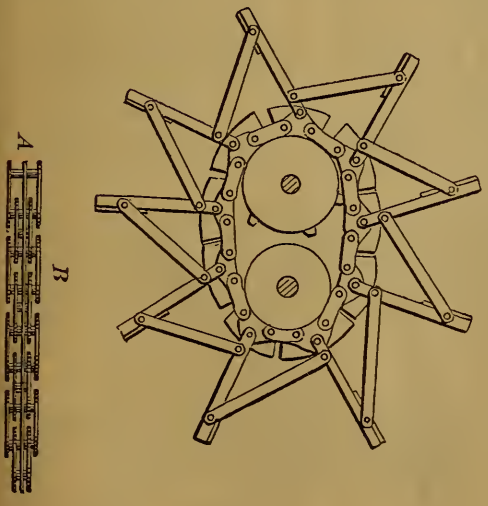
82514—T. Goodrum—*Calipers.*



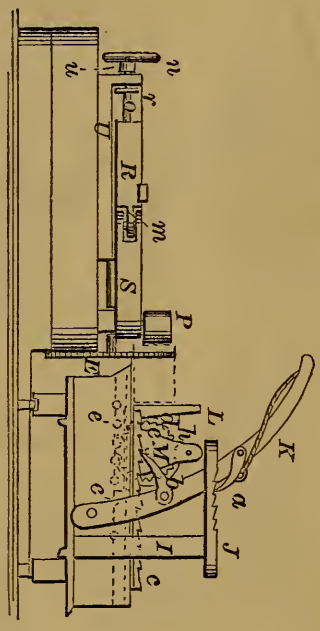
82515—W. B. Goodwin—*Corn Planter.*



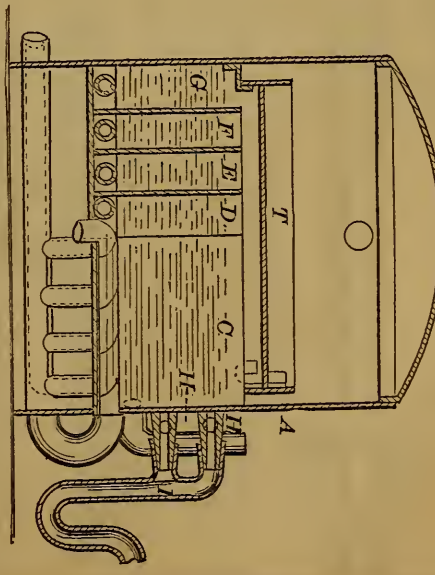
82516—J. Granger—*Propelling Apparatus.*



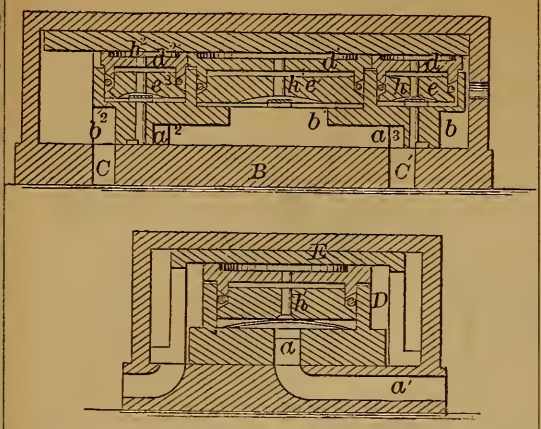
82518—A. Hackett—*Saw Mill.*



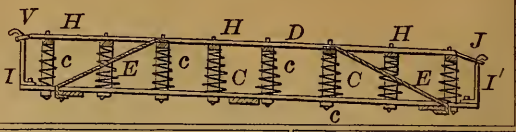
82519—F. Hacck—*For Distilling Spirits.*



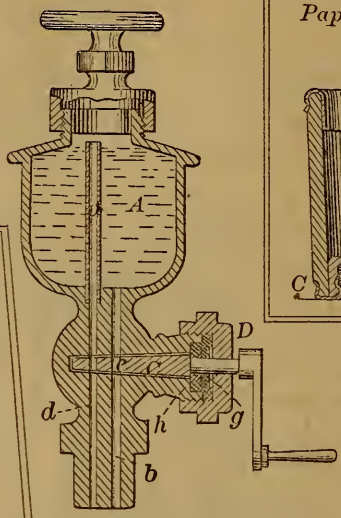
82520—J. R. Hall—*Steam Slide Valve.*



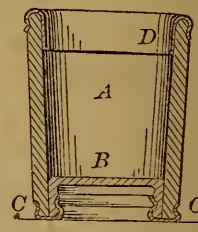
82521—W. M. Hamilton—*Bed Bottom.*



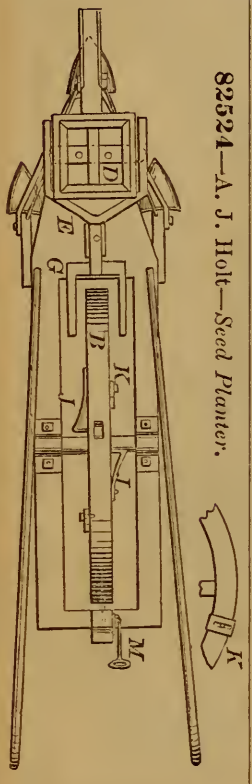
82522—J. Harlin—*Lubricator.*



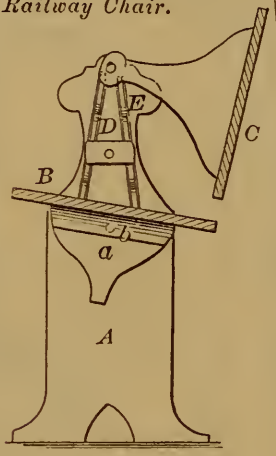
82526—A. & I. Jennings—*Paper Pail.*



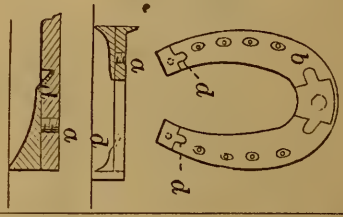
82524—A. J. Holt—*Seed Planter.*



82527—W. H. Joeckel—*Railway Chair.*

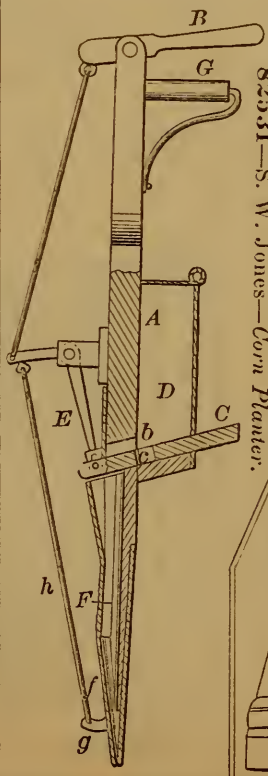


82528—Johnson & Froggott—*Horse Shoe.*

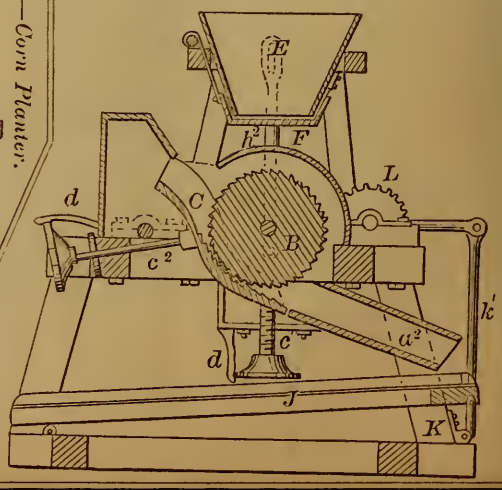


82530—J. B. Jones—*Carriage Wheel.*

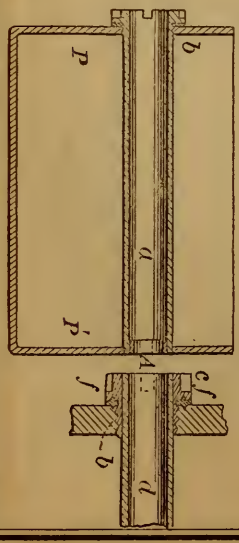
82531—S. W. Jones—*Corn Planter.*



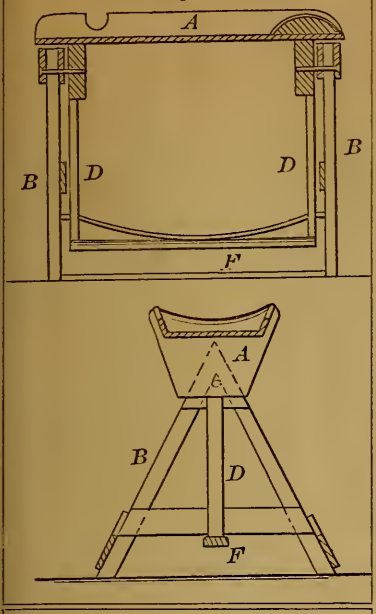
82532—F. Kaiser—*Grinding Mill.*



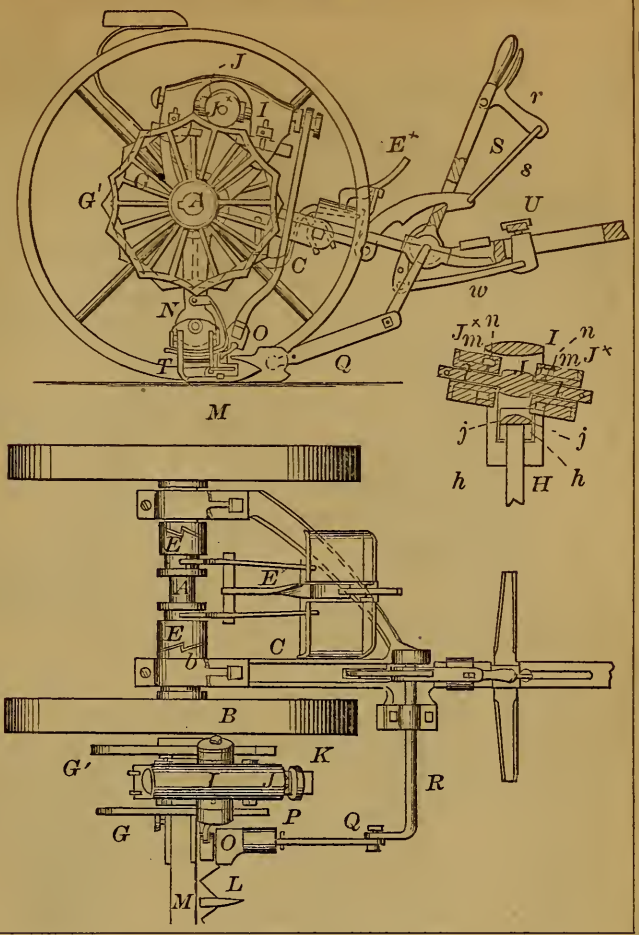
82534—V. Langlois—*Steam Generator.*



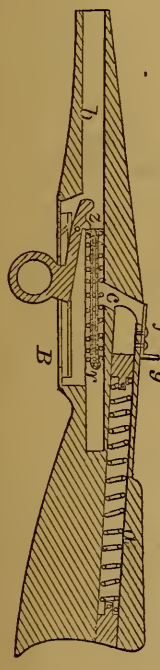
82533—W. S. Lane—*Sheep Shearing Device.*



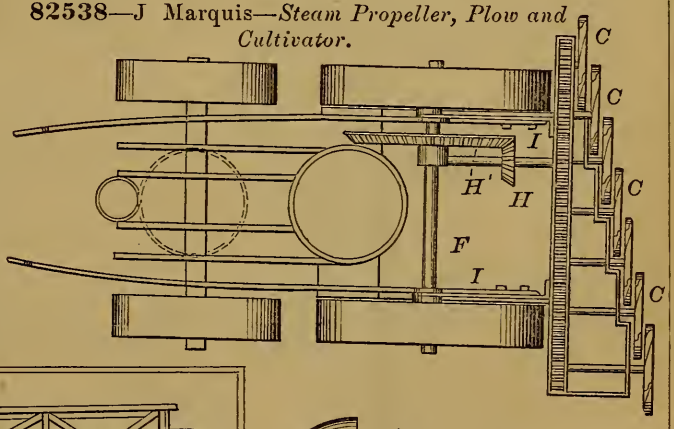
82535—C. Lidren—*Harvester.*

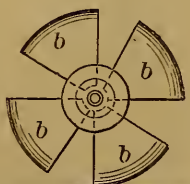


82536—C. S. Locke—*Toy Gun.*

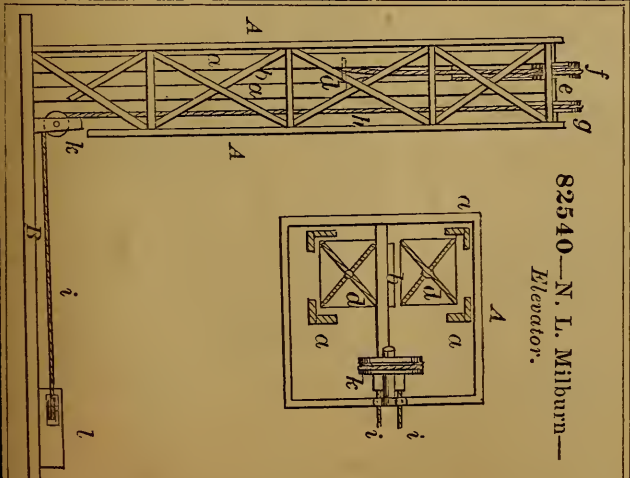


82538—J Marquis—*Steam Propeller, Plow and Cultivator.*

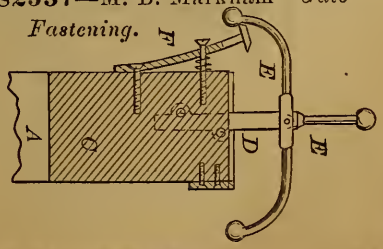




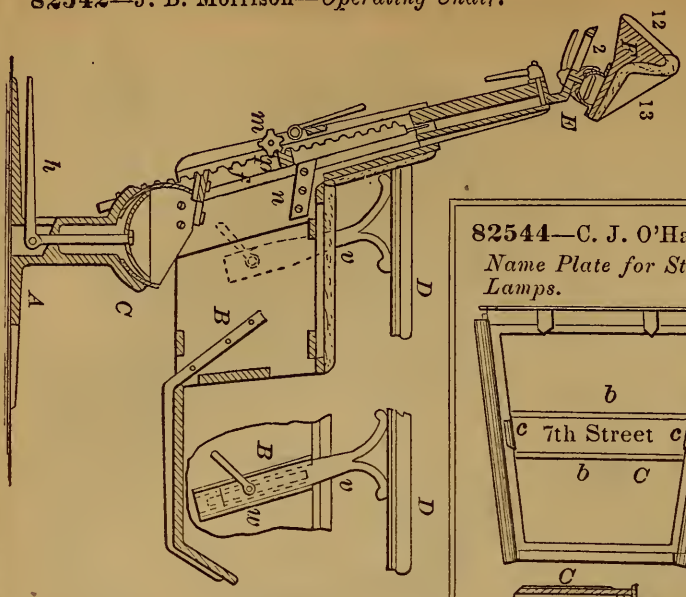
82540—N. L. Milburn—*Elevator.*



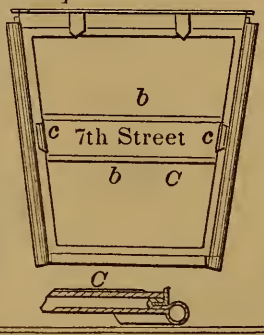
82537—M. B. Markham—*Gate Fastening.*



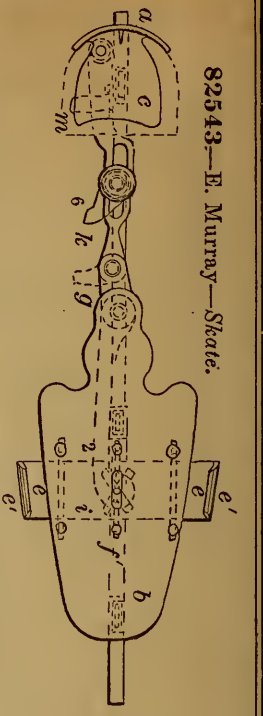
82542—J. B. Morrison—*Operating Chair.*



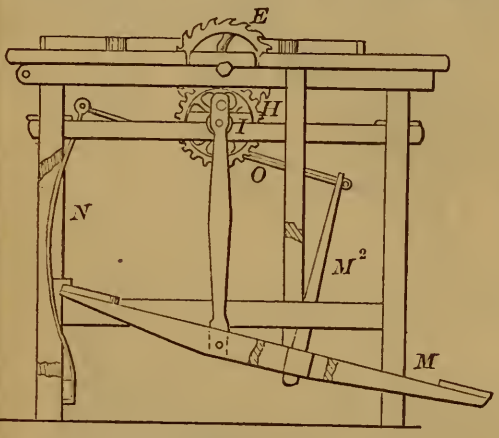
82544—C. J. O'Hara—*Name Plate for Street Lamps.*

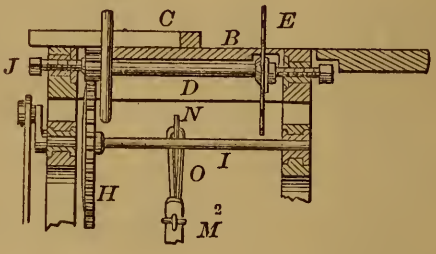


82543—E. Murray—*Skate.*

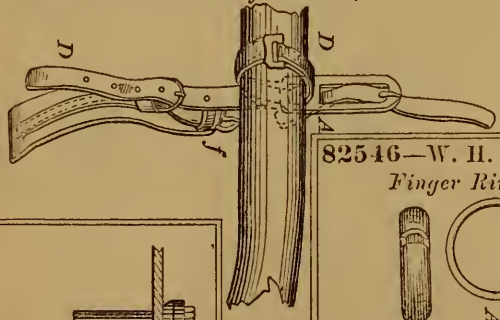


82545—J. B. Pauley—*Tread Power Machine.*

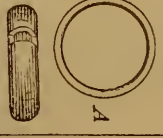




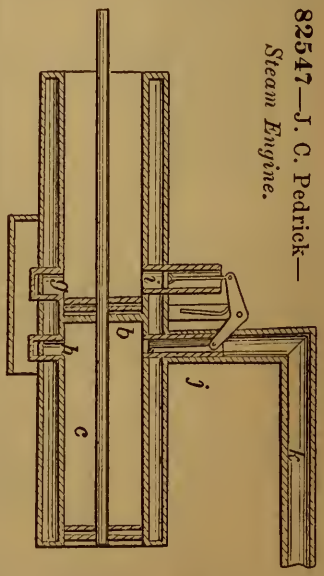
82549—W. Platt—*Shaft Bearer.*

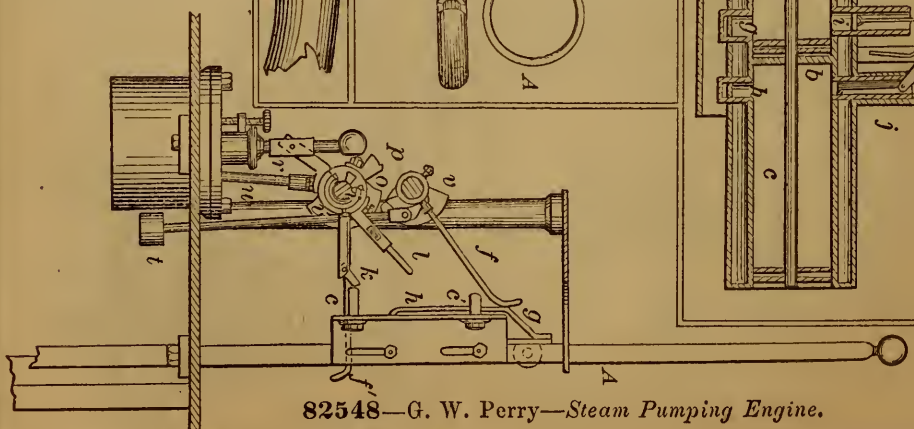


82546—W. H. Peckham—*Finger Ring.*



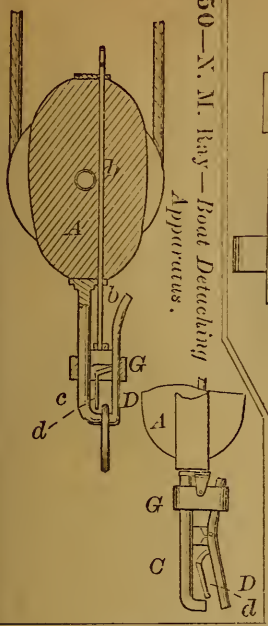
82547—J. C. Pedrick—*Steam Engine.*



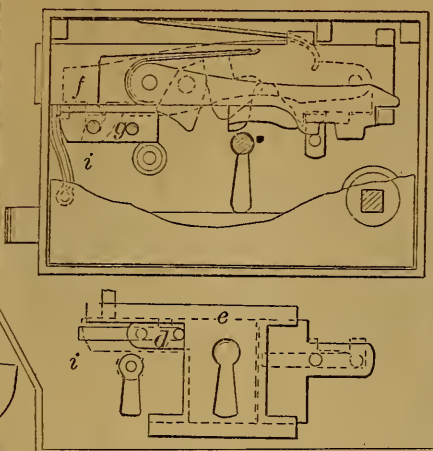


82548—G. W. Perry—*Steam Pumping Engine.*

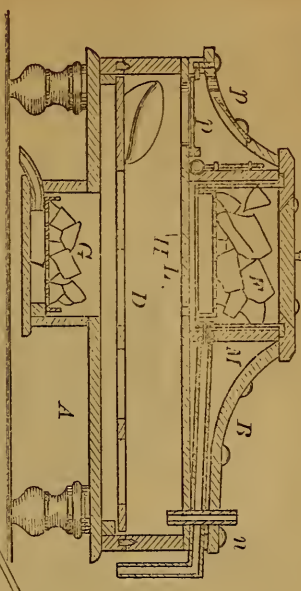
82550—N. M. Ray—*Boat Detecking Apparatus.*



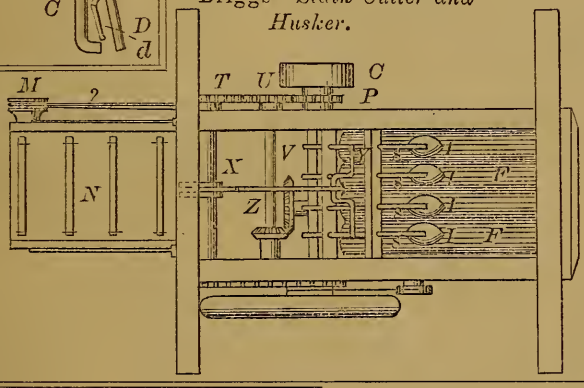
82551—C. Read—*Keyhole Guard.*



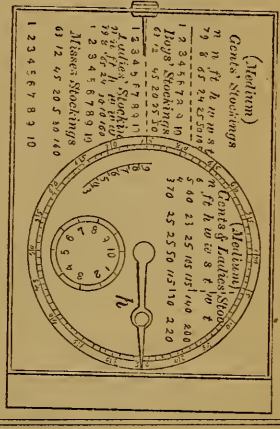
82552—J. J. Reicherts—*Corpse Preserver.*



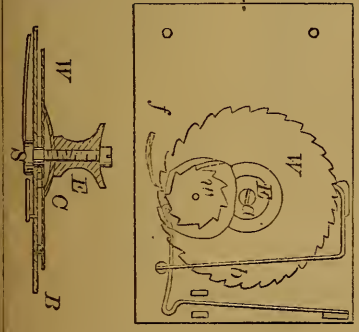
82553—J. D., C. B. & L. N. Rice & Briggs—*Stalk Cutter and Husker.*



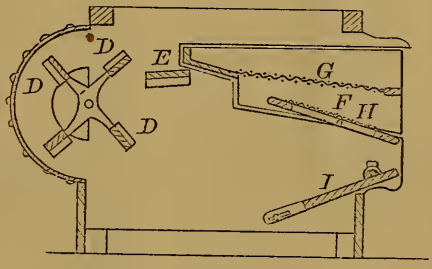
82554—J. W. Rist—*Knitting Machine Indicator.*



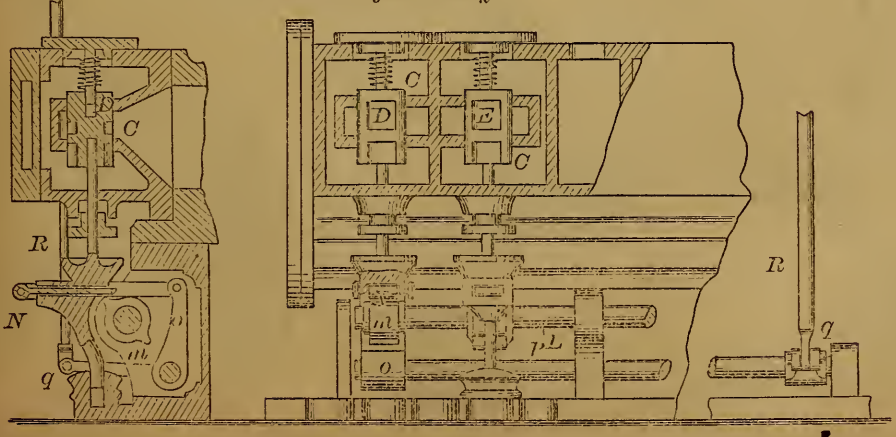
82555—J. W. Rist—*Knitting Machine Register.*



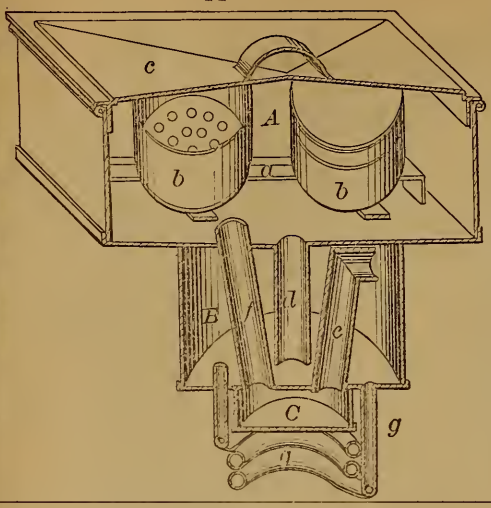
82558—H. H. Seeley—*Fanning Mill.*



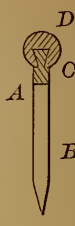
82556—G. J. Roberts—*Steam Engine Cut-off.*



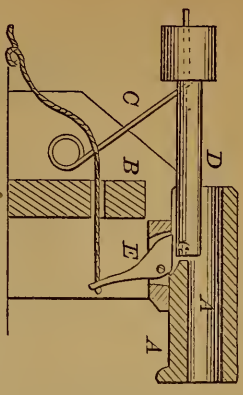
82557—E. Savage—*Steam Cooking Apparatus.*



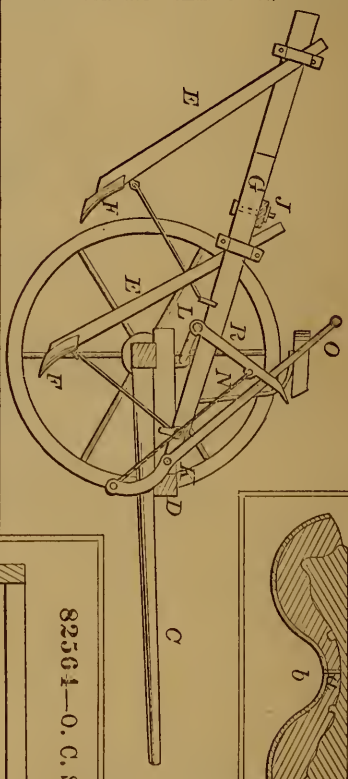
82560—J. Smith—*Comb.*



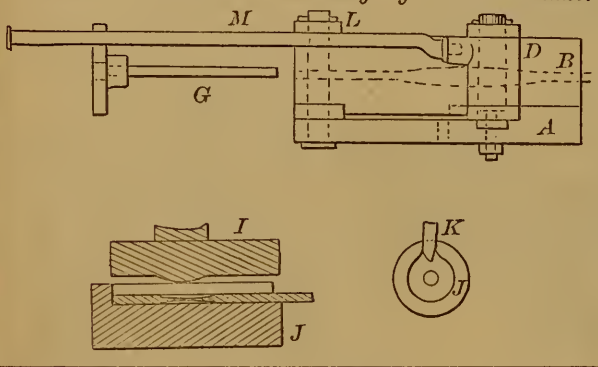
82561—Spofford & Raffington—*Toy Gun.*



82562—J. C. Stroud—*Cultivator.*

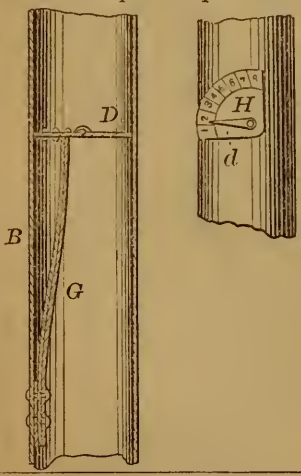


82559—G. H. Sellers—*Making Eye Bolts or Links.*

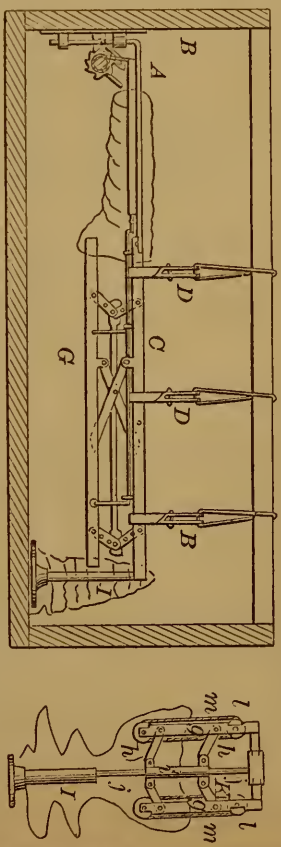


82563—L. Stuck—*Obtaining Dental Models.*

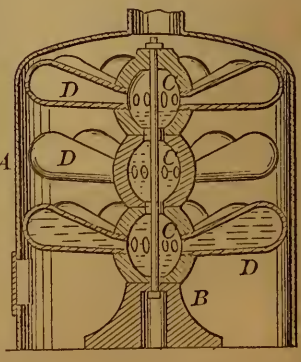
82565—G. Tamkin—*Stove Pipe Damper.*



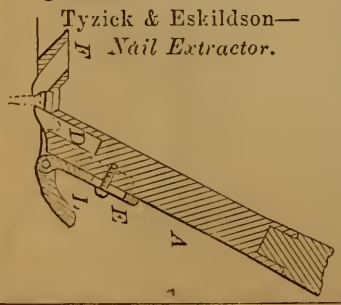
82564—O. C. Sweet—*For Drying and Stretching Fabrics.*



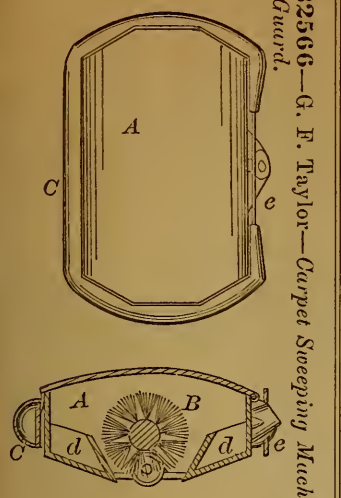
82567—M. Turley—*Steam Generator.*



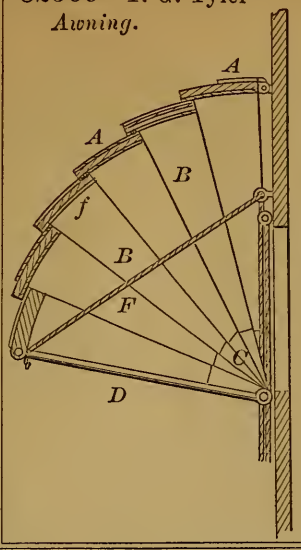
82568—Tyzick & Eskildson—*Nail Extractor.*



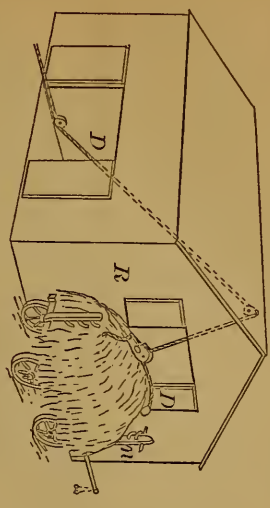
82566—G. F. Taylor—*Carpet Sweeping Machine. Guard.*



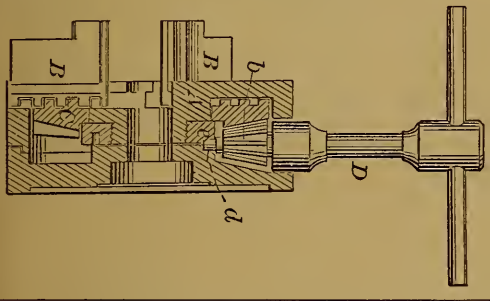
82569—T. G. Tyler—*Awning.*

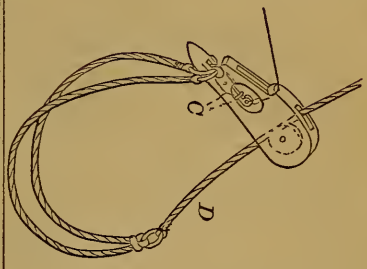


82570—G. Van Sickle—*For Unloading Hay.*

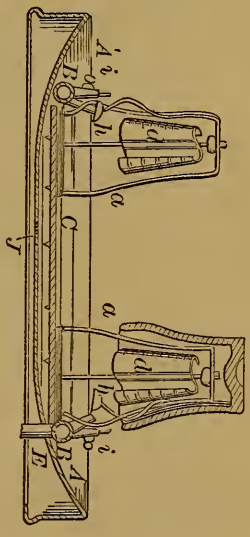


82571—J. R. Washburn—*Lathe Chuck.*

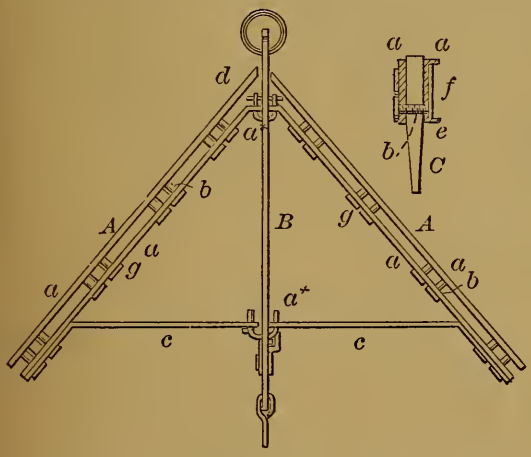




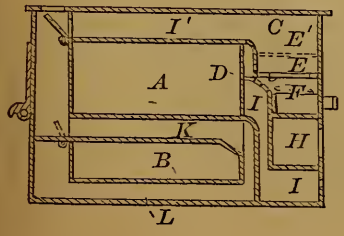
82572—J. C. Wharton—*Tumbler Stand.*



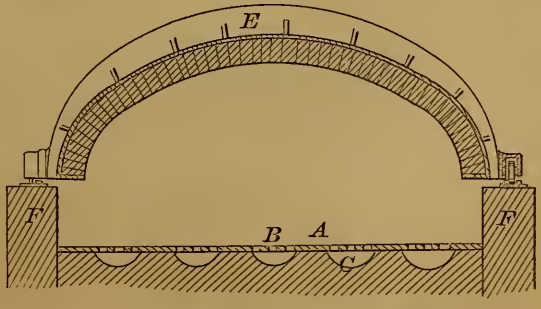
82573—A. S. White—*Harrow and Cultivator.*



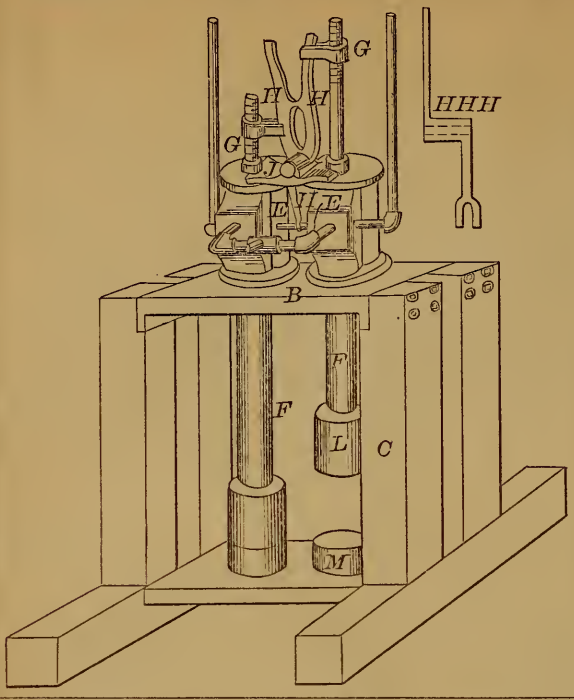
82574—C. Williams—*Stove.*



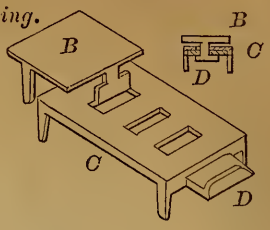
82576—H. Aitken—*Treating Iron Ores.*



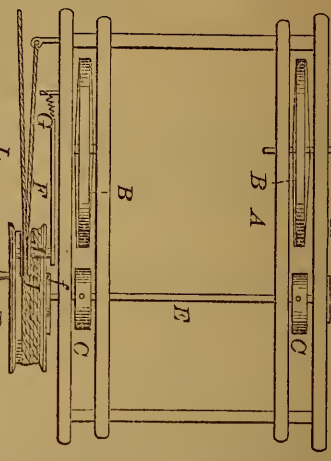
82575—F. R. Wilson—*Steam Engine Valve Gear.*



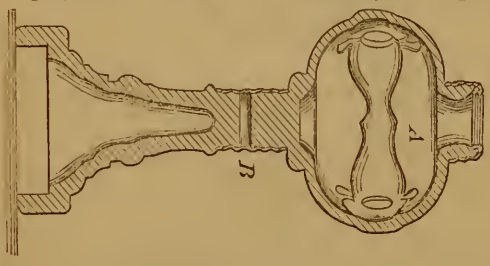
82577—J. C. Arms—*Pocket Book Fastening.*



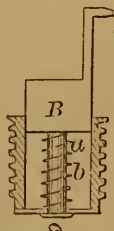
82578—Arvin & Whitmore—*Corn Planter.*



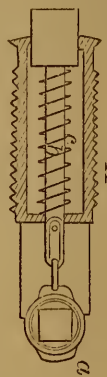
82579—J. S. & T. B. Atterbury—*Lamp.*



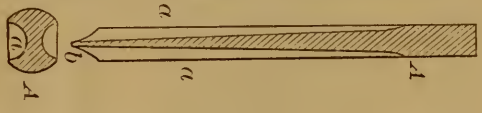
82580—F. Babcock—*Sash Holder.*



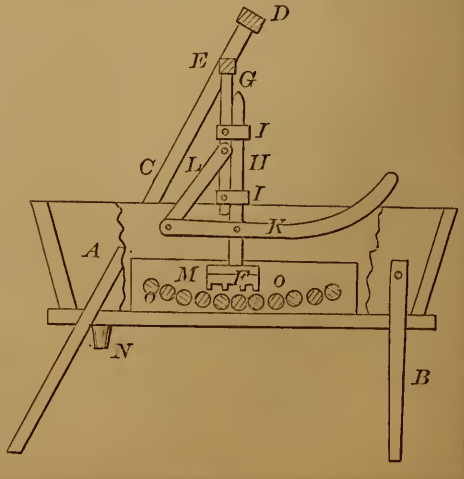
82581—F. & F. Babcock—*Door Latch.*



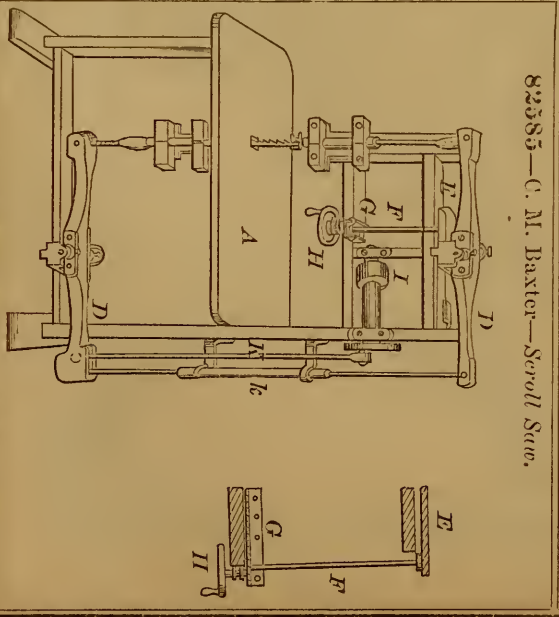
82583—Q. S. Backus—*Chuck Drill.*



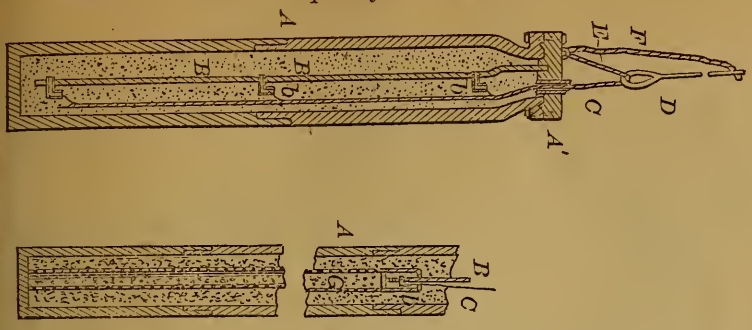
82584—J. Ballard—*Washing Machine.*



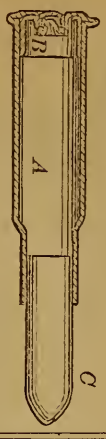
82585—C. M. Baxter—*Scroll Saw.*



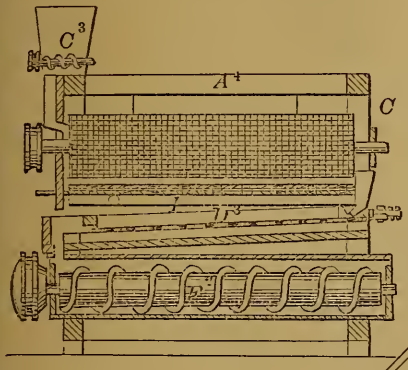
82586—E. Beach—*Torpedo for Oil Wells.*



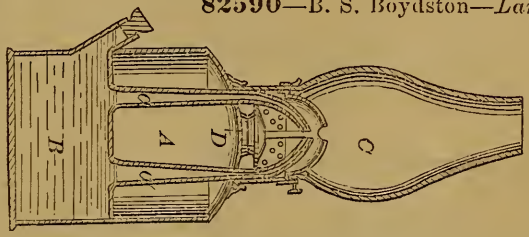
82587—H. Berdan—*Cartridge.*



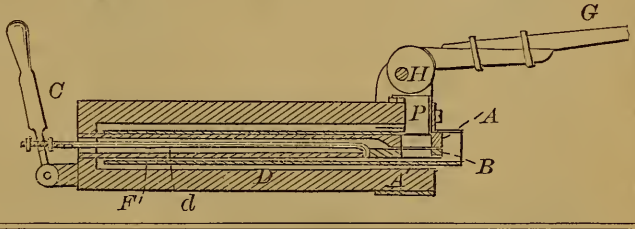
82589—D. Bonnell—*Grain Dryer.*



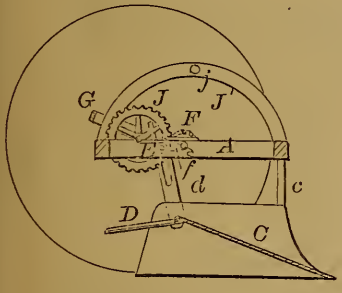
82590—B. S. Boydston—*Lamp.*



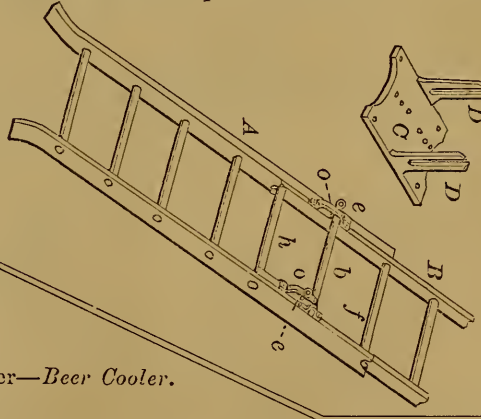
82591—J. T. Brigden—*For Punching Tubes.*



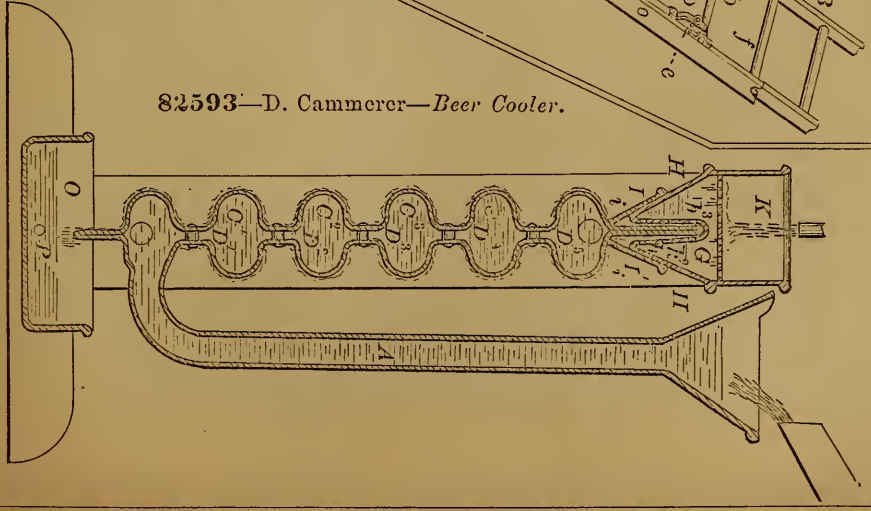
82592—J. Burt—*Potato Digger.*



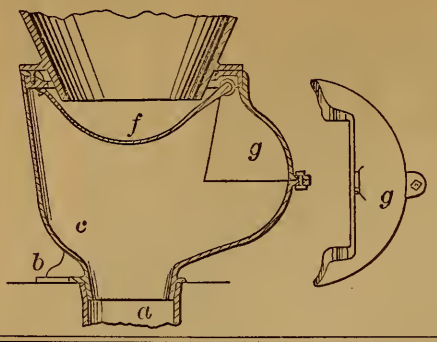
82594—E. P. H. Capron—*Ladder.*



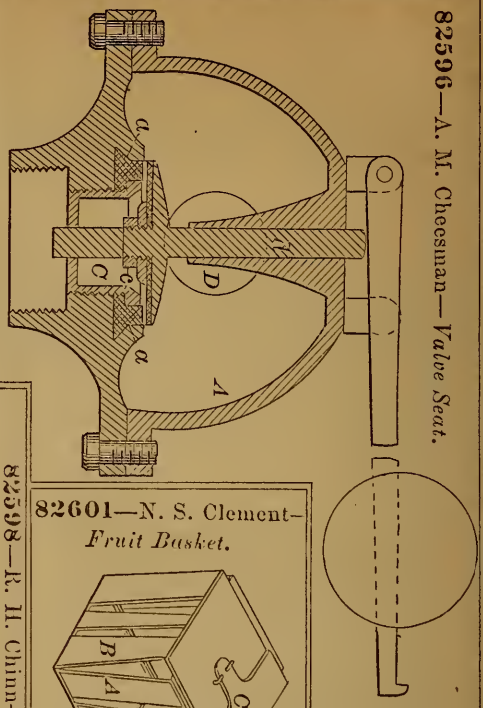
82593—D. Cammerer—*Beer Cooler.*



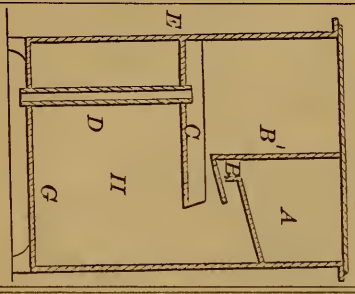
82595—W. S. Carr—*Water Closet.*



82596—A. M. Cheesman—*Valve Seat.*

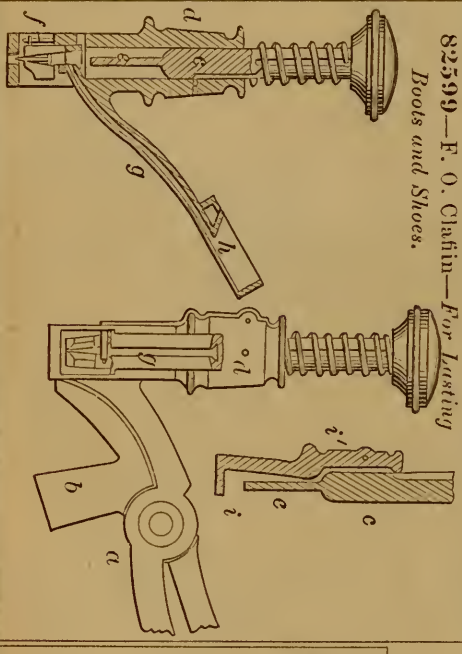


82597—S. Child—*Refrigerator.*

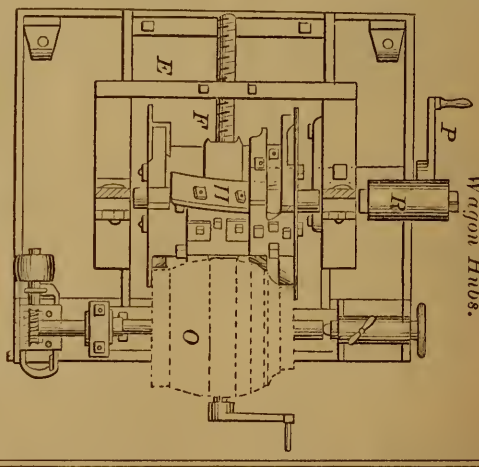


82598—R. H. Chinn—*Fountain Pen.*

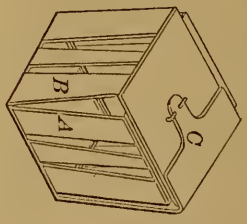
82599—F. O. Claflin—*For Lasting Boots and Shoes.*



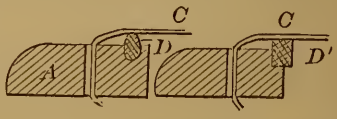
82600—W. W Cleaveland—*Turning Wagon Hubs.*



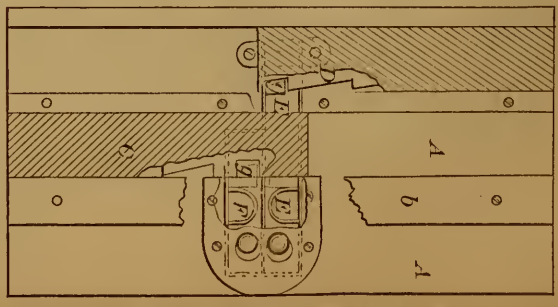
82601—N. S. Clement—*Fruit Basket.*



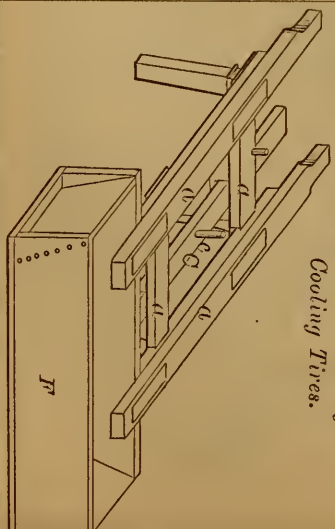
82602—D. C. Colby—*Chair.*



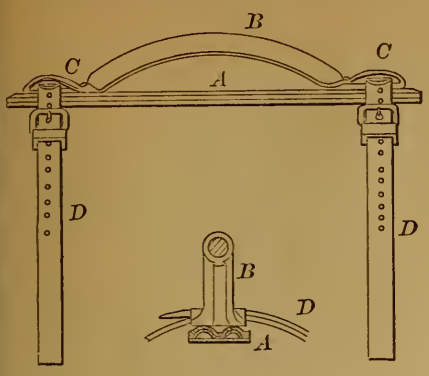
82603—A. Conant—*Sash Fastener.*



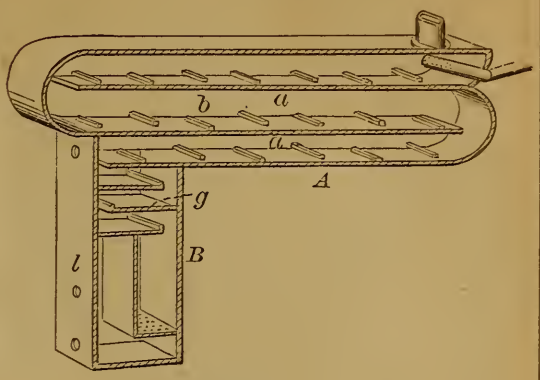
82605—J. Courtleyow—*For Setting and Cooling Tires.*



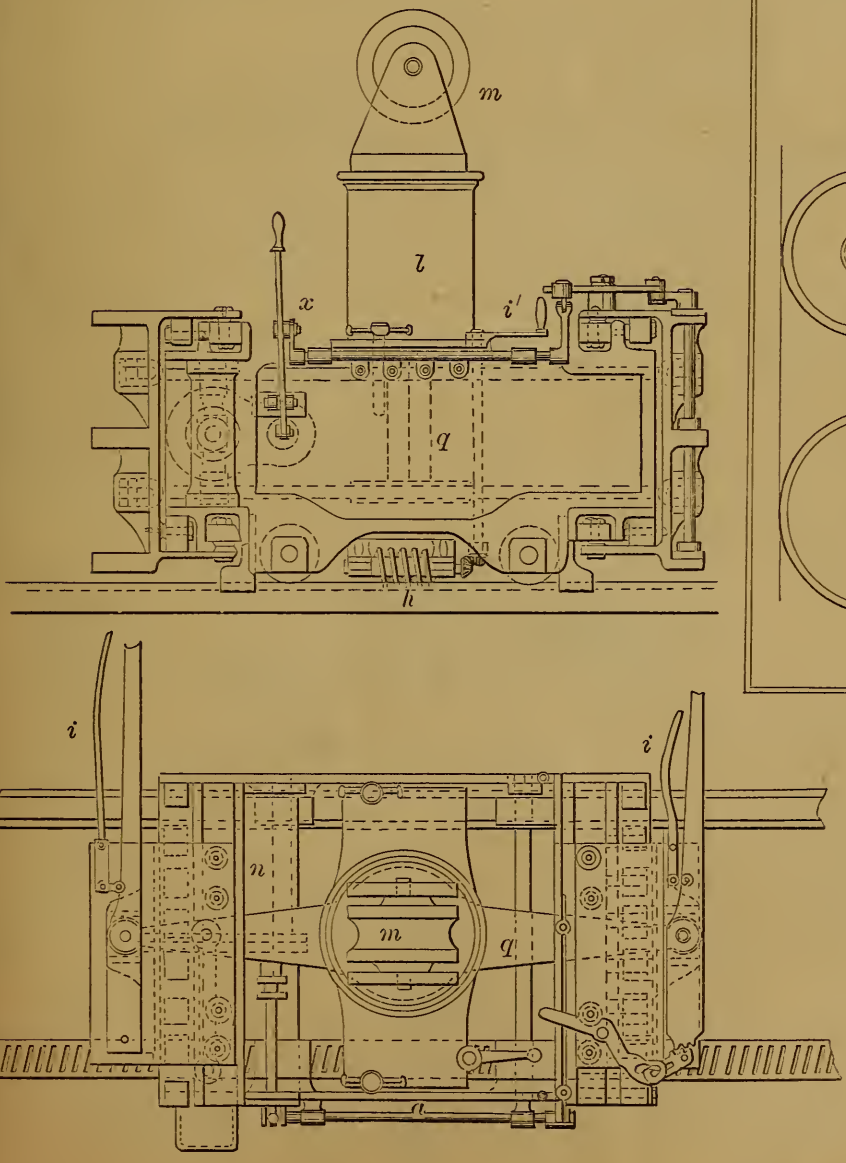
82606—G Crouch—*Shawl Strap.*



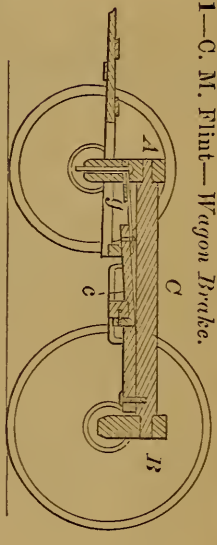
82609—J. J. Doughty—*Heater and Filter for Boilers.*



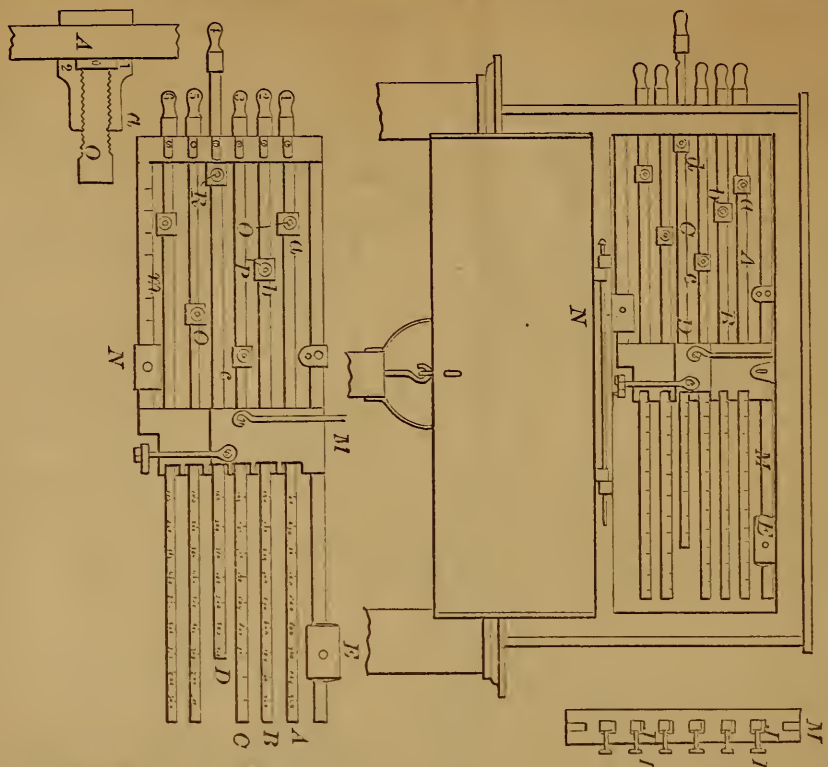
82608—G. E. Donisthorpe—*Coal Cutting Machine.*



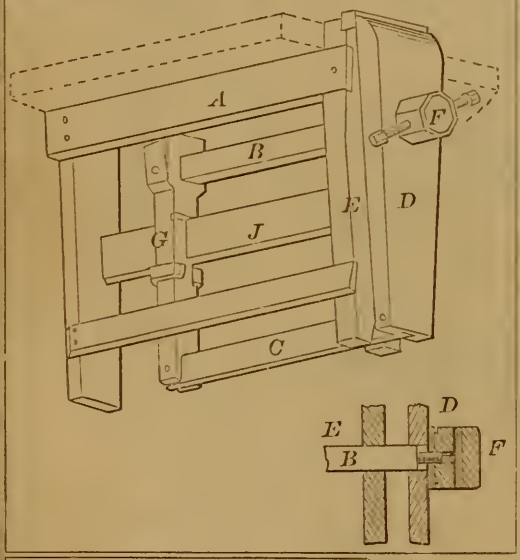
82611—C. M. Flint—*Wagon Brake.*



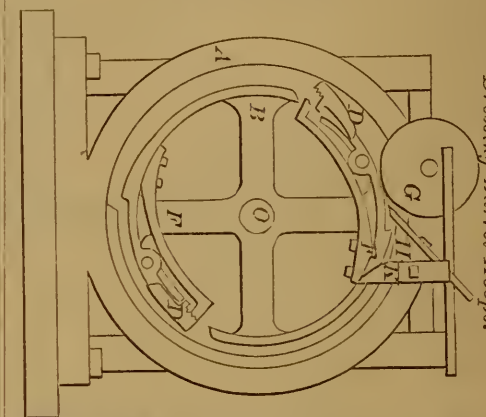
82610—T. & H. Fairbanks—*Charging Scales.*



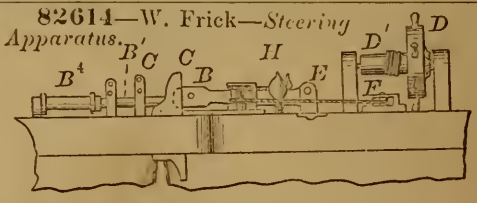
82612—O. V. Flora—*Vise.*



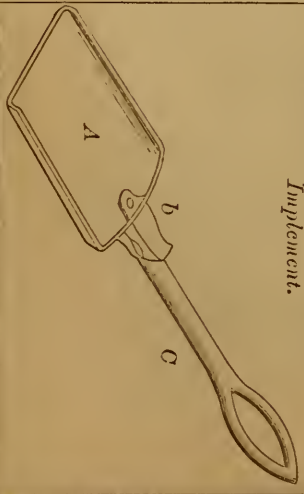
82613—J. T. Forsyth—*For Dressing Barrel Hoops.*



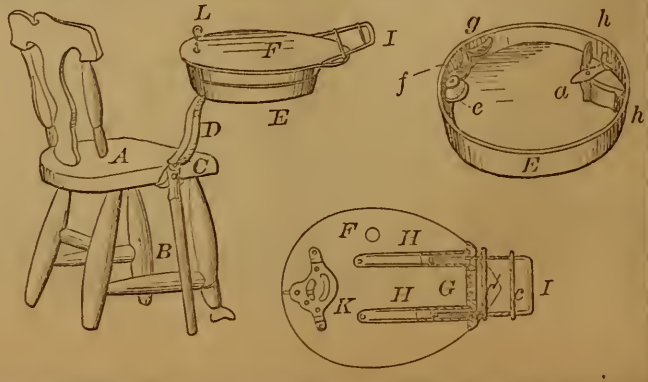
82614—W. Frick—*Steering Apparatus.*



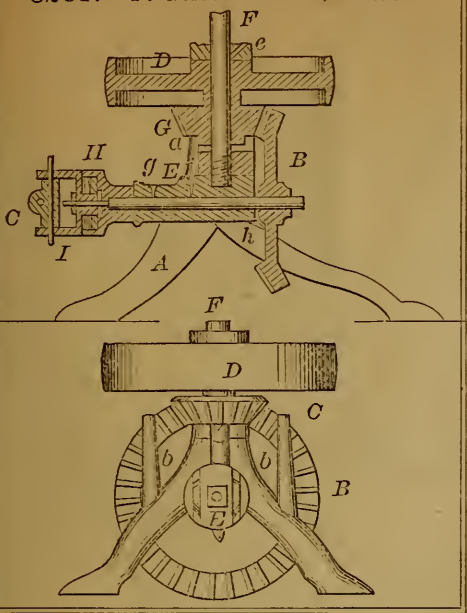
82615—J. Frisch—*Kitchen Implement.*



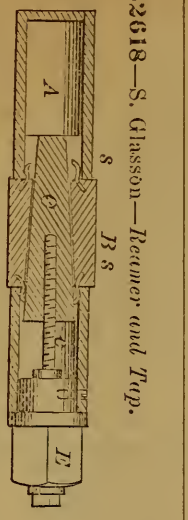
82616—P. Geiser—*Writing Table and Chair.*



82617—P. Geiser—*Horse Power.*

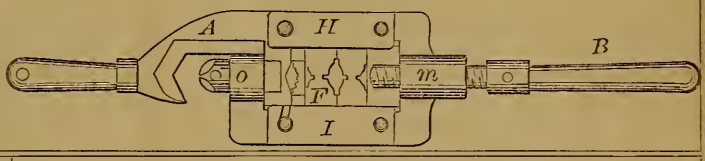


82618—S. Glasson—*Reamer and Tap.*

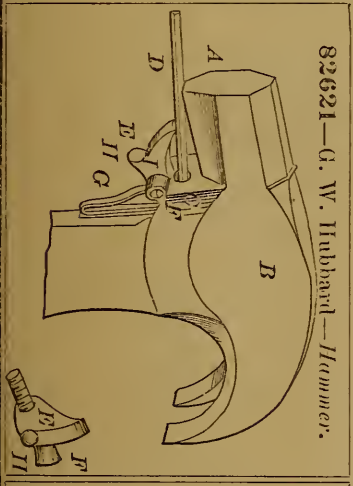


82619—H. J. Harris—*Pyrotechnic Signal.*

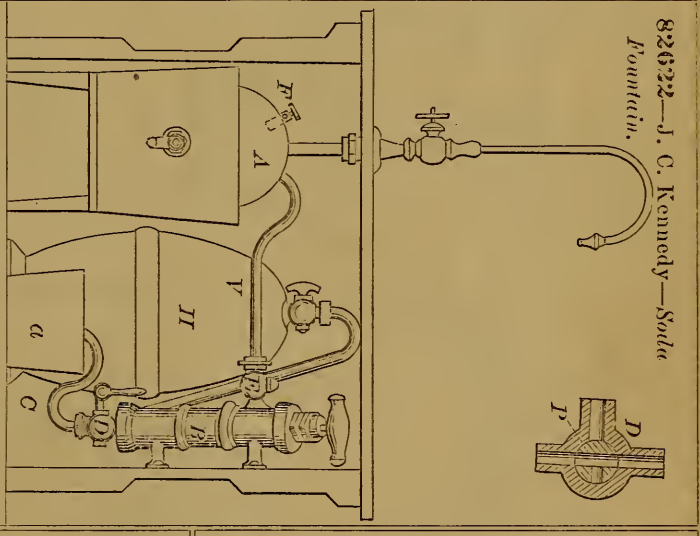
82620—J. Himmer—*Gas Fitters' Tool.*



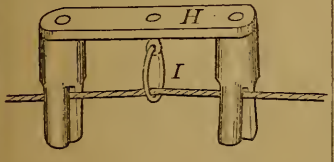
82621—G. W. Hubbard—*Hammer.*



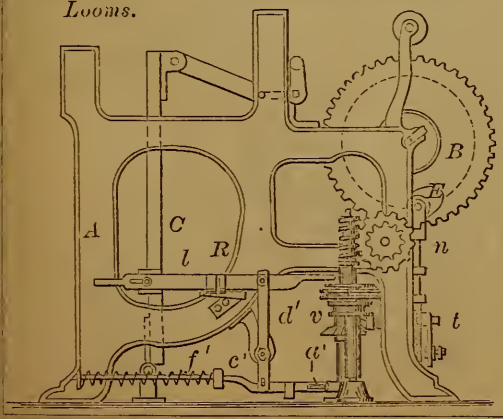
82622—J. C. Kennedy—*Soda Fountain.*



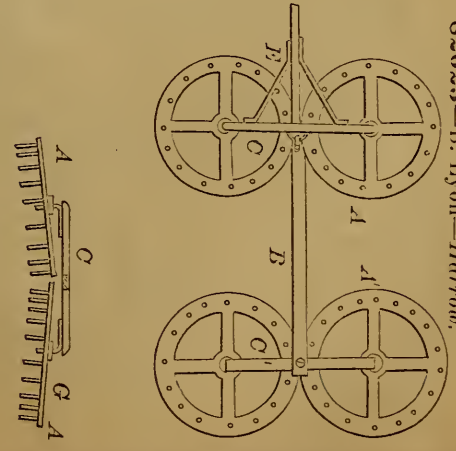
82624—L. Matthews—*Clothes Pin.*



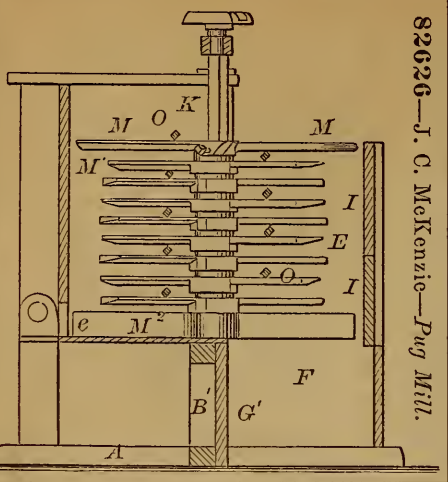
82625—P. McGee—*Let-off Mechanism for Looms.*



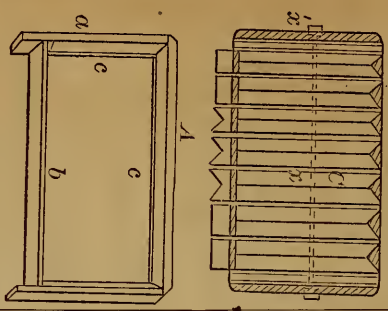
82623—B. Lyon—*Harrow.*



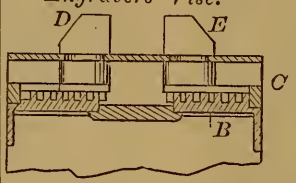
82626—J. C. McKenzie—*Pug Mill.*



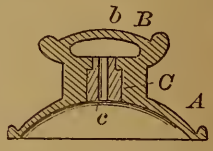
82628—B. F. Nave—*Beehive.*



82627—G. N. Munger—*Engravers Vise.*

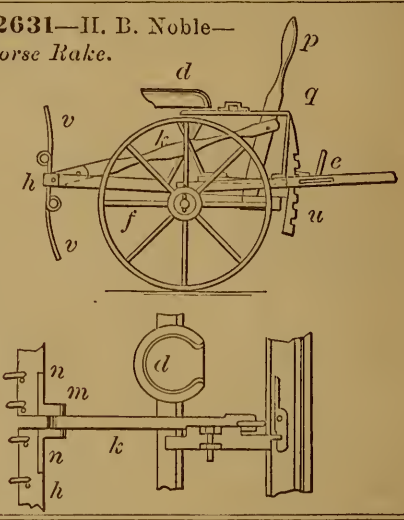


82629—O. H. Needham—*Atmospheric Knob.*

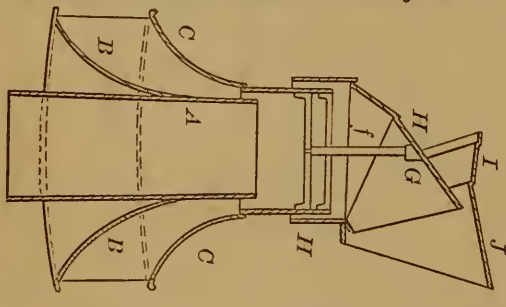


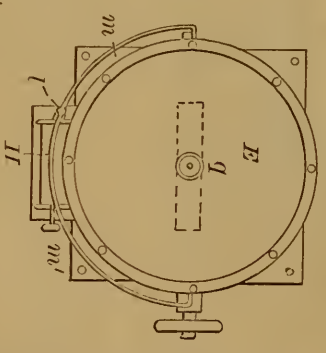
82630—F. Nichols—*Hub.*

82631—H. B. Noble—*Horse Rake.*

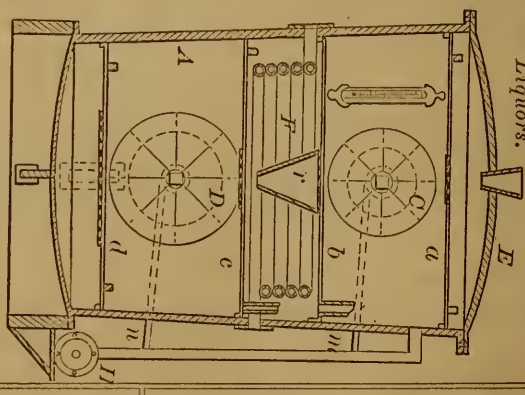


82632—E. T. Noualhier—*Chimney Cowl.*

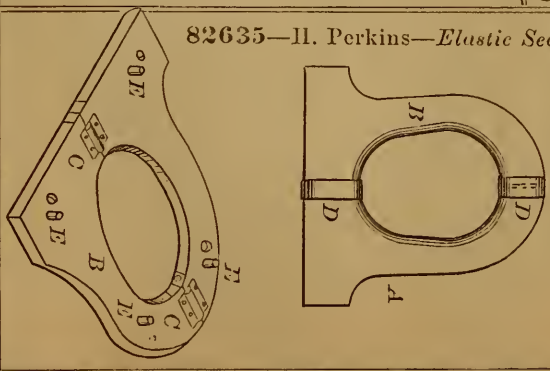




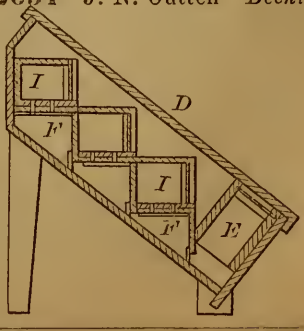
82633—J. S. Oliver—*Refining Liquors.*



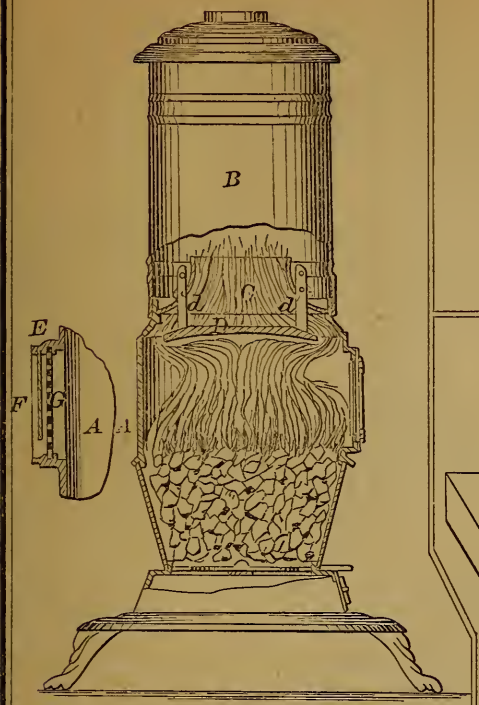
82635—H. Perkins—*Elastic Seat.*



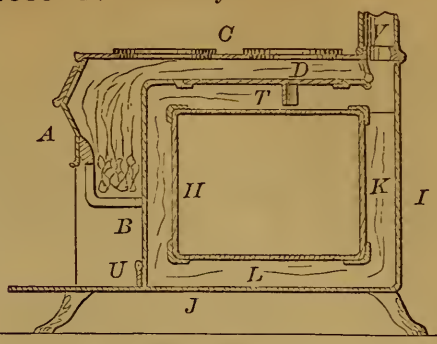
82634—J. N. Outten—*Beehive.*



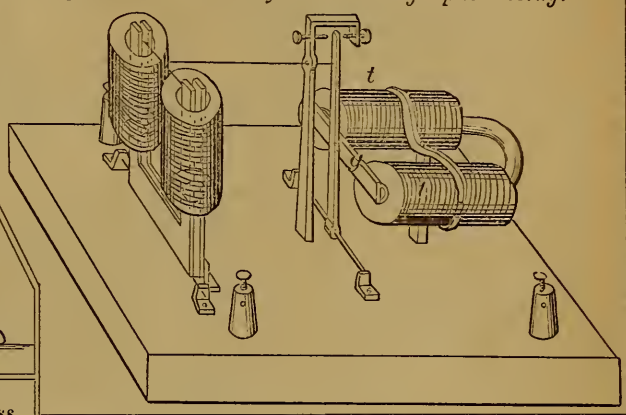
82637—A. J. Redway—*Stove.*



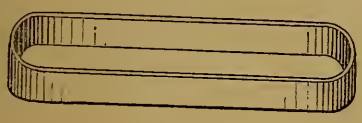
82638—A. J. Redway—*Stove.*



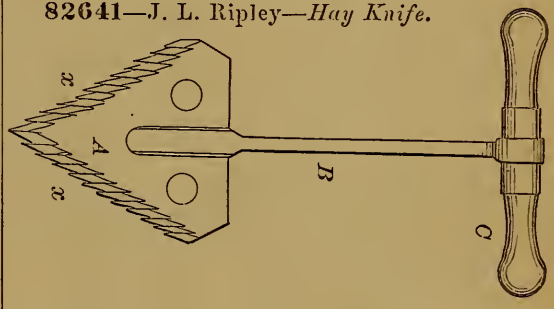
82639—L. H. Reynolds—*Telegraphic Relay.*



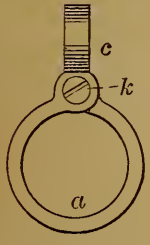
82640—Richards & Traut—*Endless Belt.*



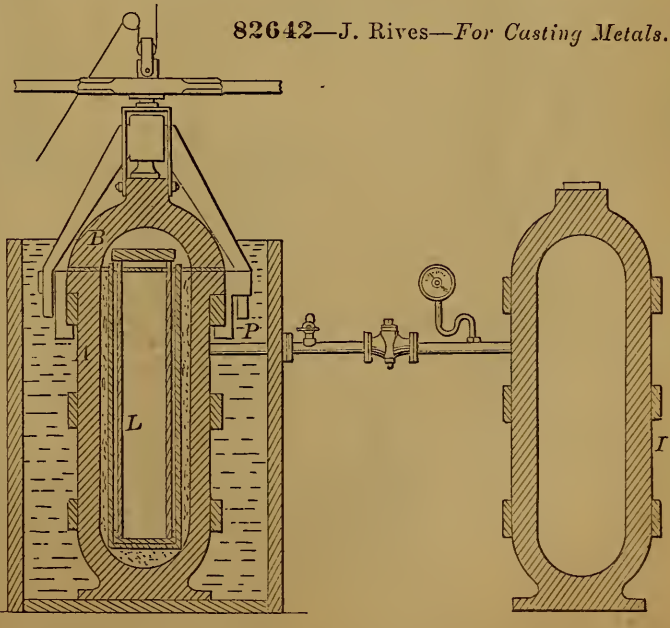
82641—J. L. Ripley—*Hay Knife.*



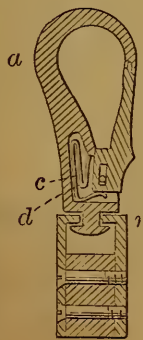
82643—L. A. Sanford—*Clasp Ring.*



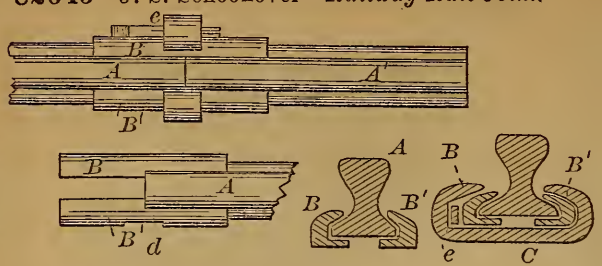
82642—J. Rives—*For Casting Metals.*



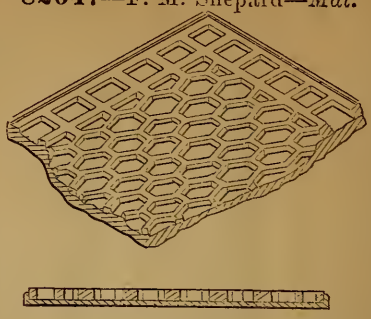
82644—L. A. Sanford—*Snap Hook.*



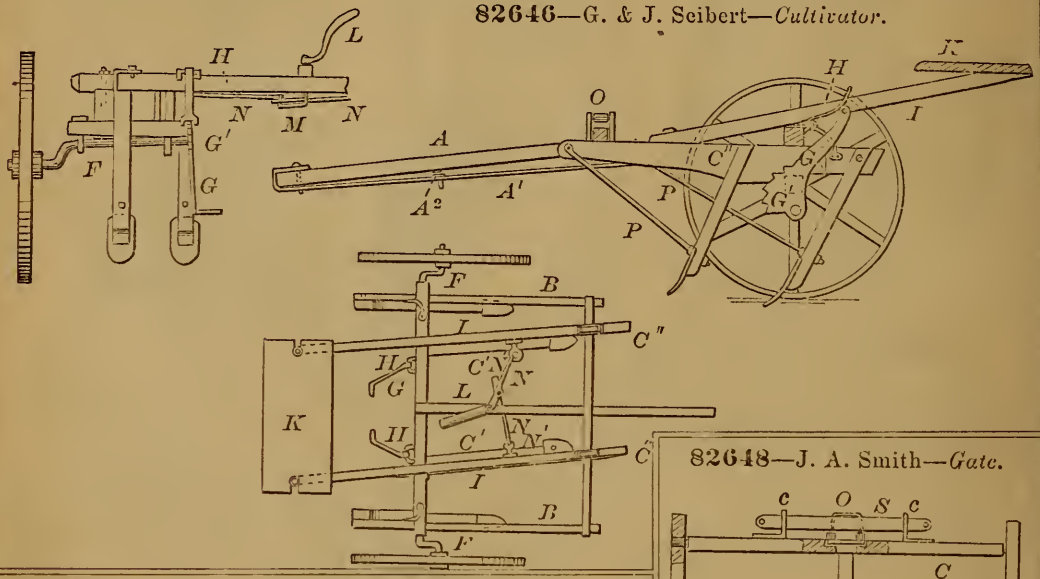
82645—J. S. Schoonover—*Railway Rail Joint.*



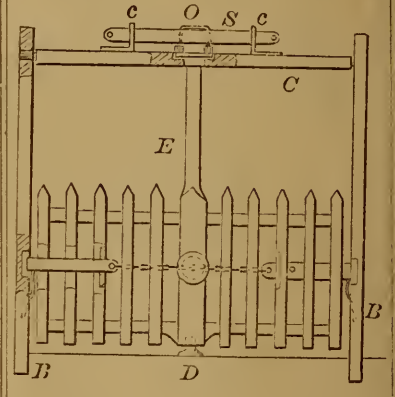
82647—F. M. Shepard—*Mat.*



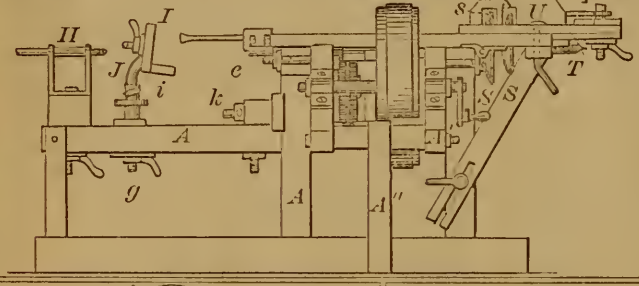
82646—G. & J. Seibert—*Cultivator.*



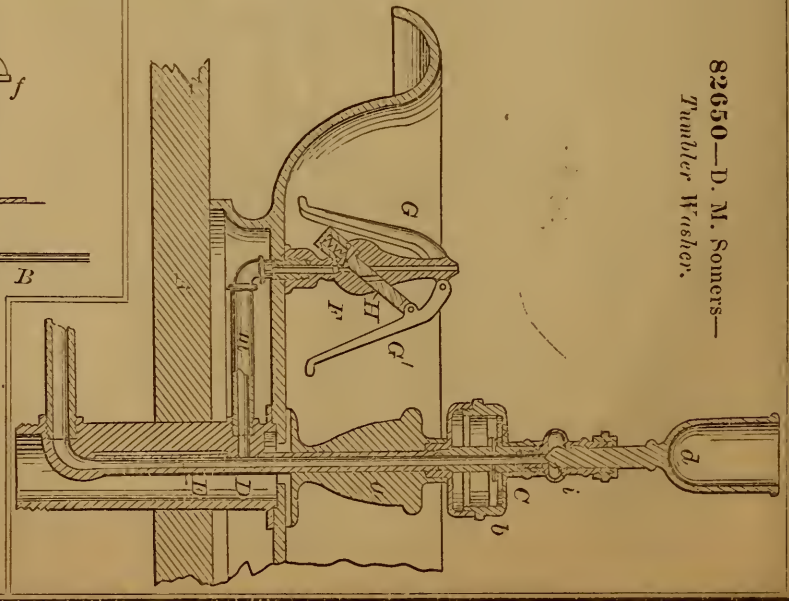
82648—J. A. Smith—*Gate.*



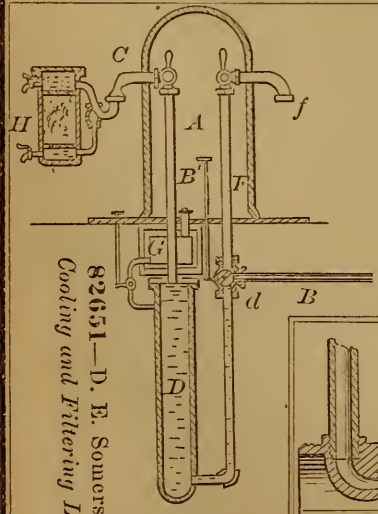
82649—T. Smith—*Sawing and Boring Machine.*



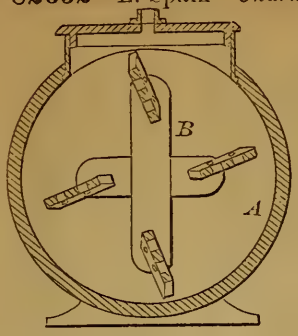
82650—D. M. Somers—*Tumbler Washer.*



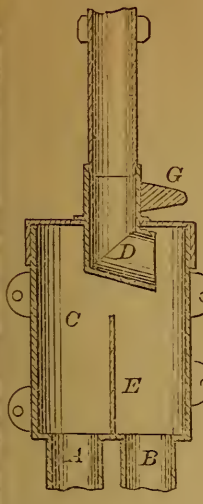
82651—D. E. Somers—*For Cooling and Filtering Liquids.*

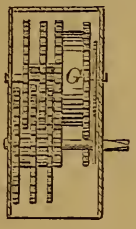


82652—E. Spain—*Churn.*

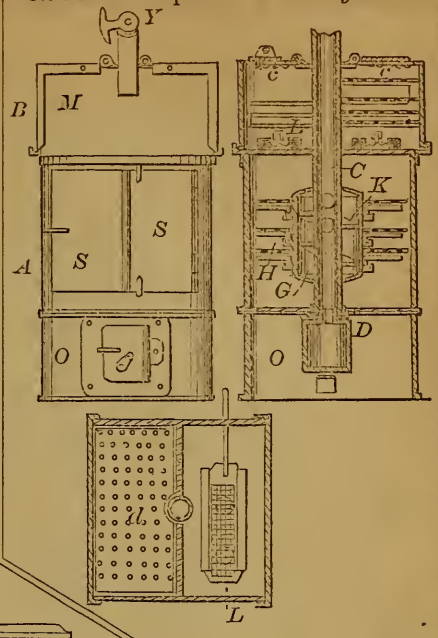


82653—J. Spear—*Rain Water Cut-off.*

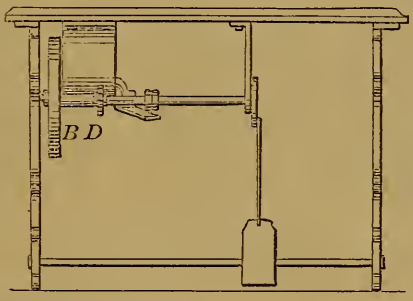




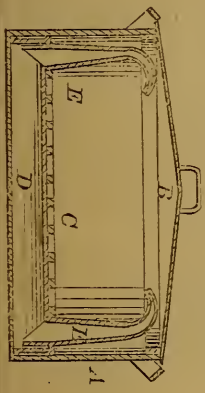
82654—J. Spear—*Fruit Dryer.*

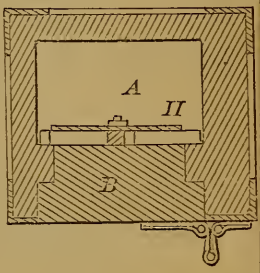


82655—G. Stackpole—*Auxiliary Power for Sewing Machines.*



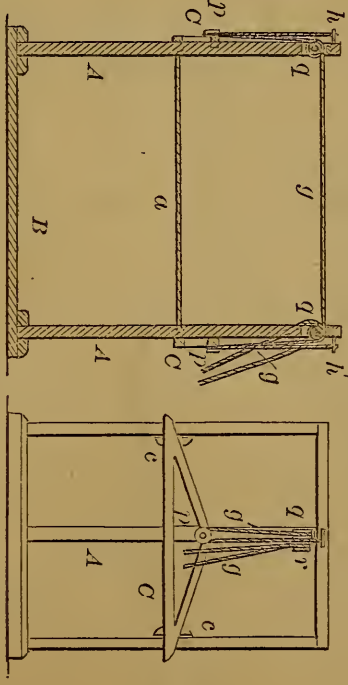
82656—O. F. Stedman—*Wash Boiler.*



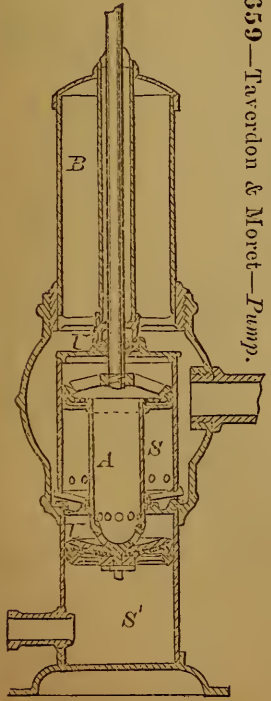


82658—P. J. Stuhltrager—*Safe Door Hinge.*

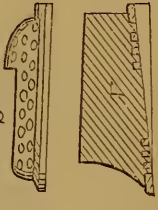
82657—H. D. Struse—*Clothes Dryer.*



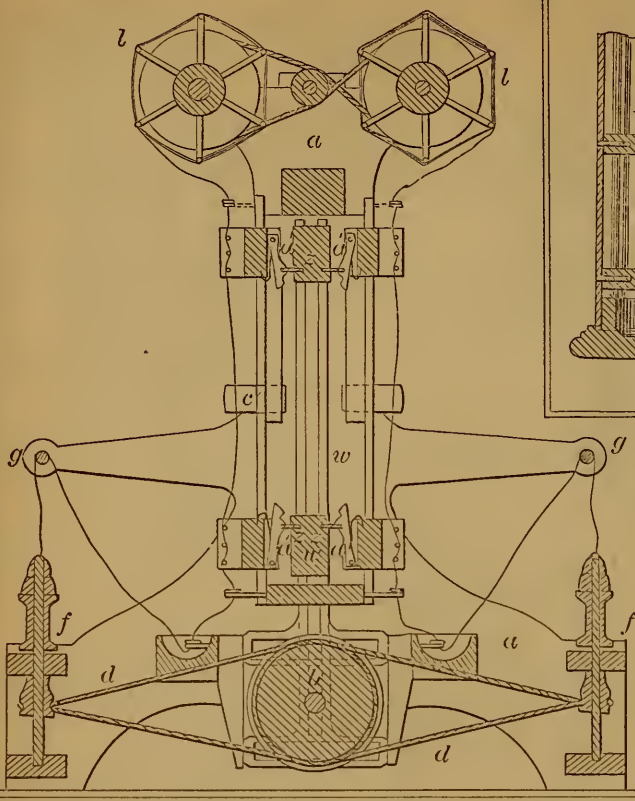
82659—Taverlon & Moret—*Pump.*



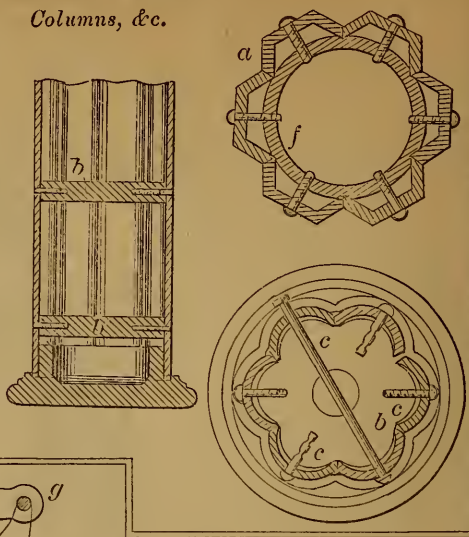
82662—Tull & Stevenson—*Boot and Shoe Heel.*



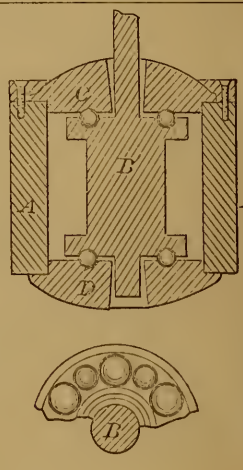
82661—W. W. Trapp—*Polishing Thread.*



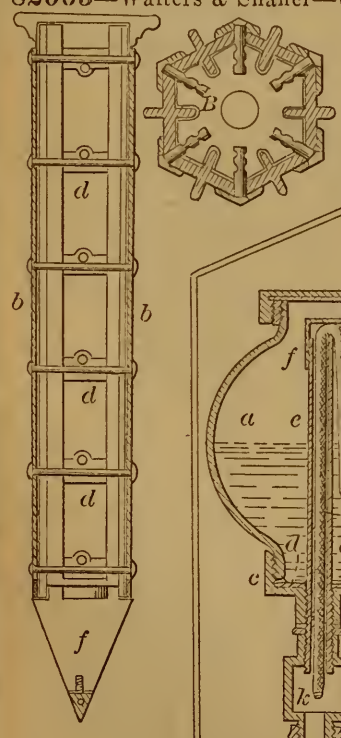
82664—Walters & Shaffer—*Constructing Columns, &c.*



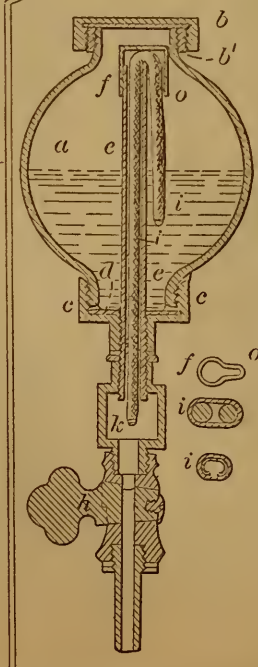
82665—G. L. Weaver—*Journal Box.*



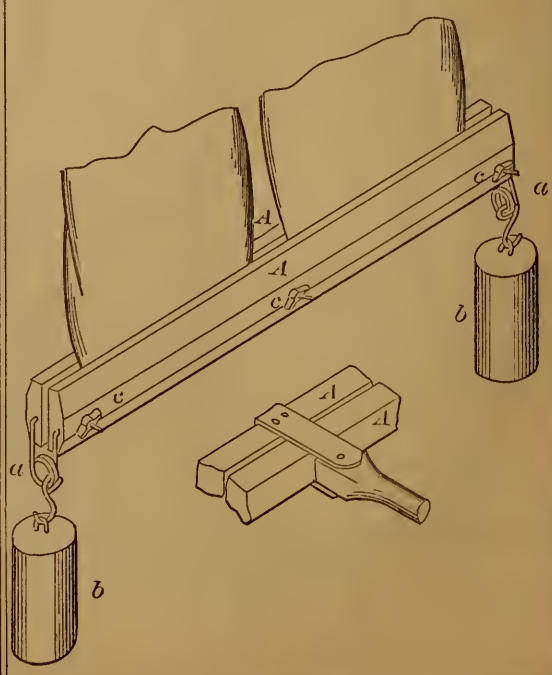
82663—Walters & Shaffer—*Constructing Columns, &c.*



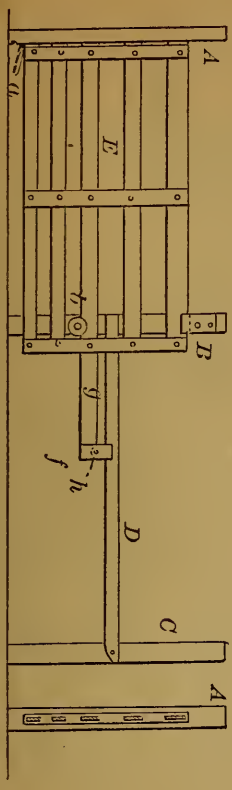
82667—J. B. Wickersham—*Lubricator.*



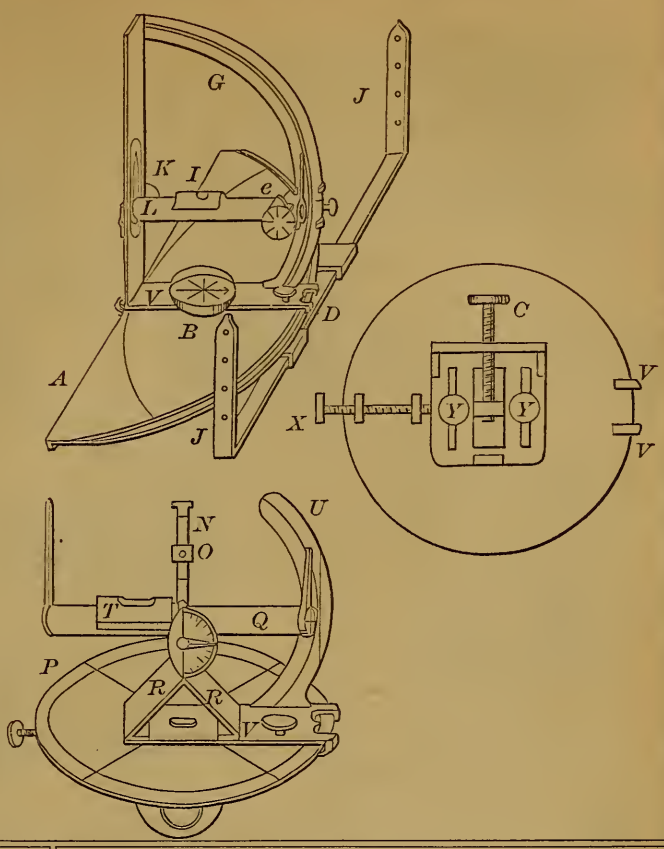
82666—S. C. Wells—*Pantaloons Stretching Device.*



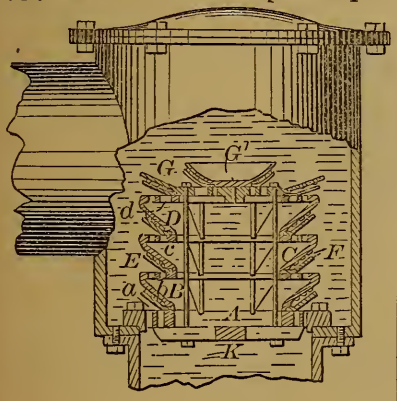
82668—T. B. Wickham—*Farm Gate.*



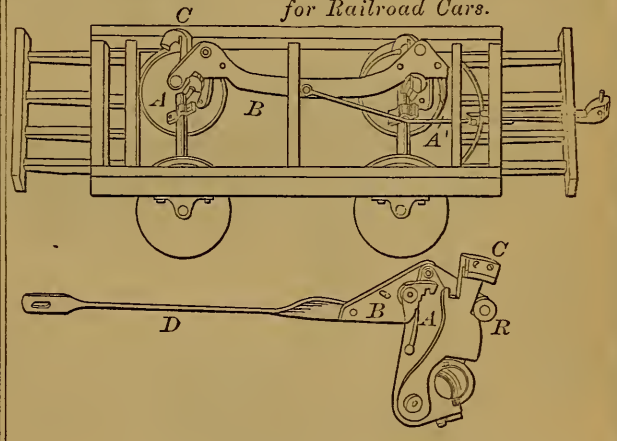
82669—C. Wilson—*Measuring Heights and Distances.*



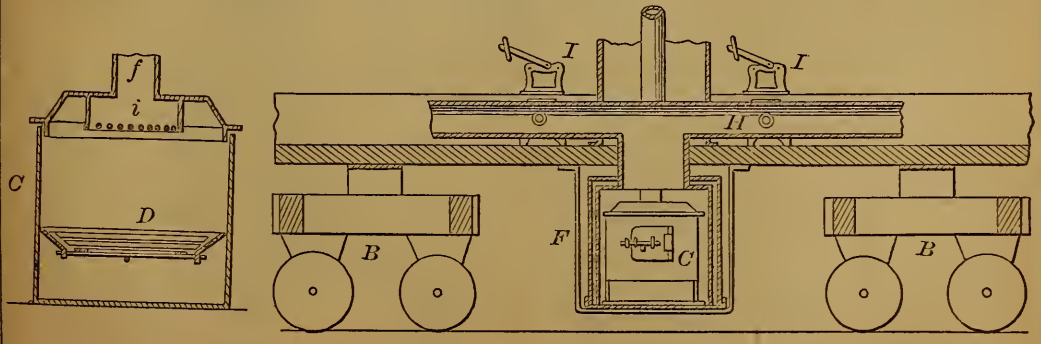
82670—Wilson & Dunlap—*Pump.*



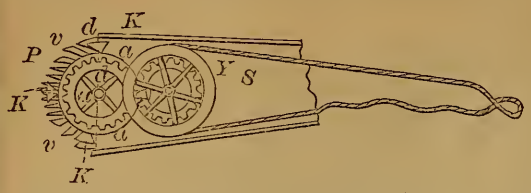
82671—Woodward & Millett—*Starting Apparatus for Railroad Cars.*



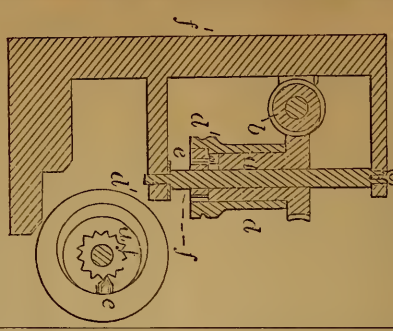
82672—J. E. Wootten—*Valve in Railroad Car Stoves.*



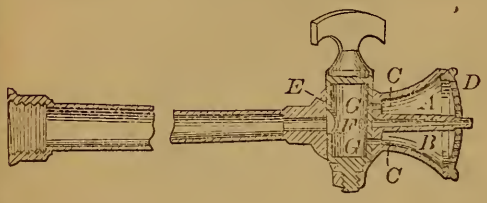
82673—J. K. Alwood—*Sheep Shearing Device.*



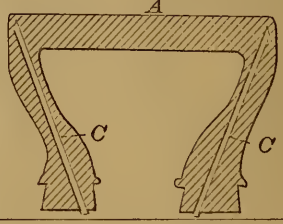
82674—M. M. Ammidon—*Transmitting Motion.*



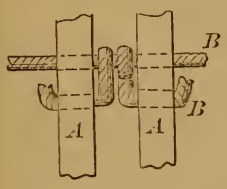
82676—O. J. Backus—*Hose Pipe Nozzle.*



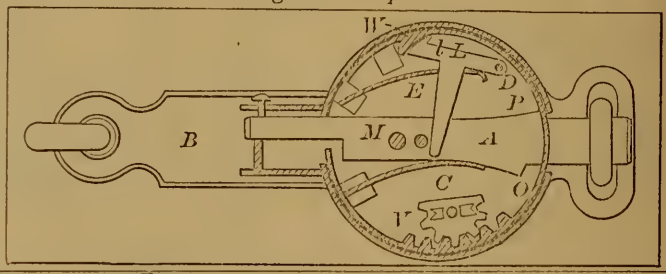
82677—A. Barrows—*Sad Iron Handle.*



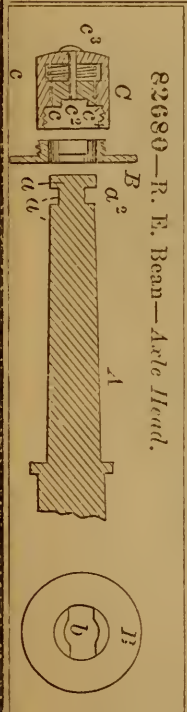
82678—W. Barton—*Slat Matting for Cars, &c.*



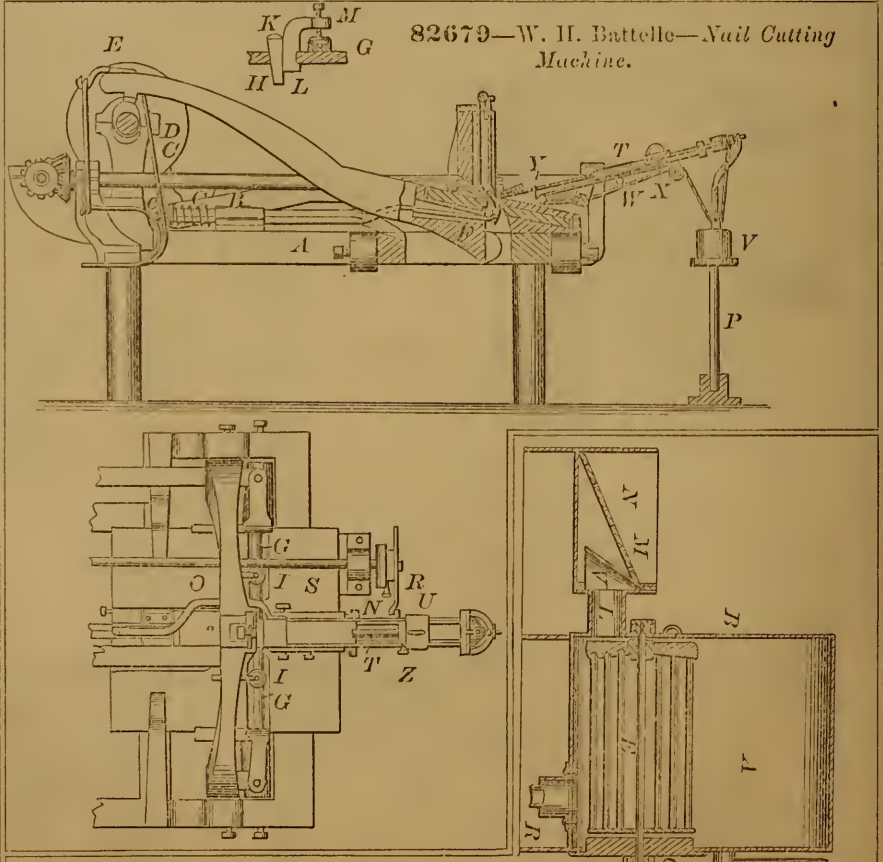
82681—J. H. Beauregard—*Hasp Lock.*



82680—R. E. Bean—*Axle Head.*

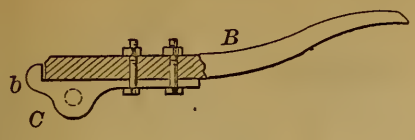


82679—W. H. Battelle—*Nail Cutting Machine.*

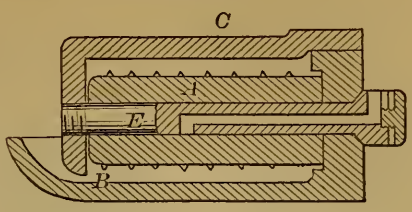


82682—H. B. Bond—*For Defecating Cane Juice.*

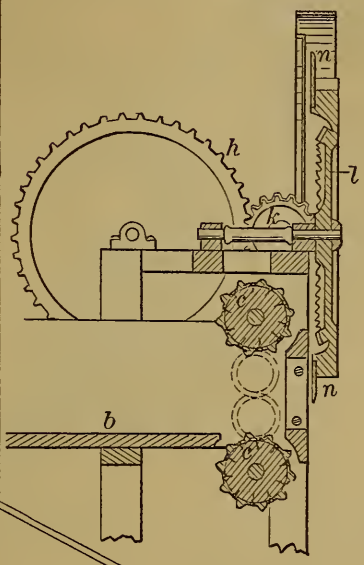
82683—F. Boylston—*Children's Carriage.*

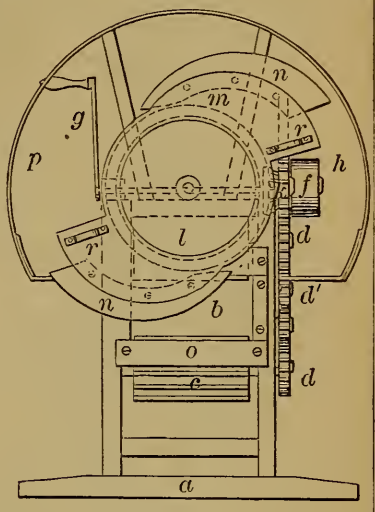


82684—L. Briggs—*Temple for Looms.*

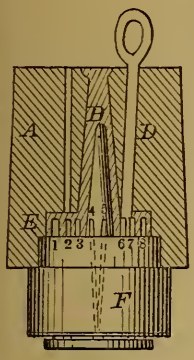


82685—J. W. Brockway—*Straw Cutter.*

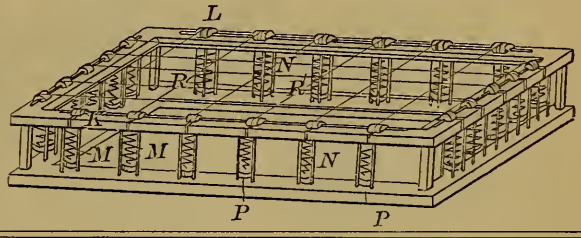




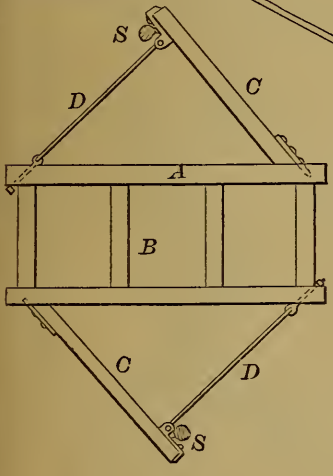
82686—A. R. Brown—*Mould.*



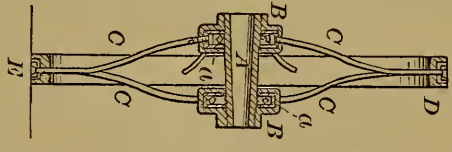
82687—G. A. Brown—*Spring Bed Bottom.*



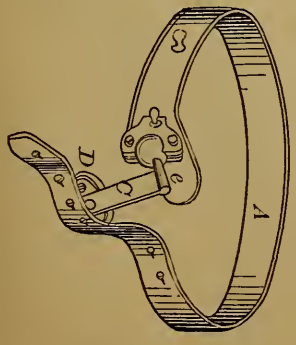
82688—W. H. Buell—*Securing Horse Powers to the Ground.*



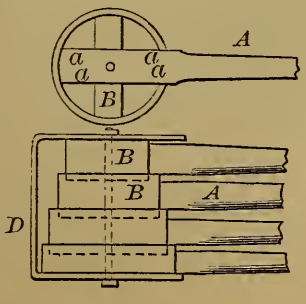
82690—J. G. Buzzell—*Carriage Wheel.*



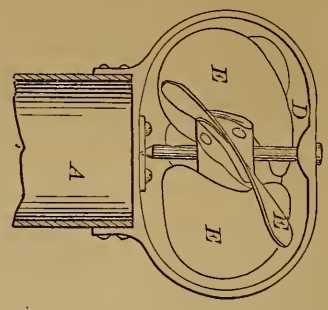
82689—J. Burnham—*Truss.*



82691—C. Carrier—*Towel and Clothes Rack.*

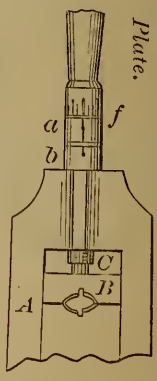


82693—W. Chappell—*Chimney Cap.*

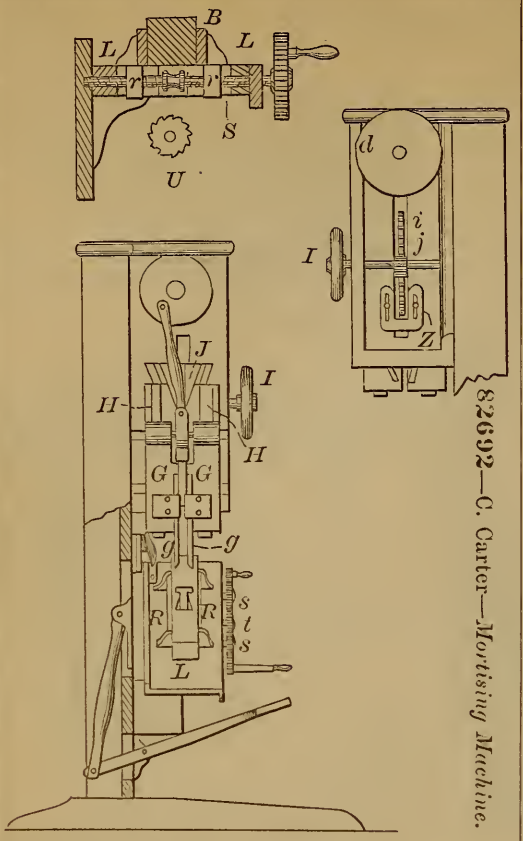


82694—G. W. Dana—*Padlock.*

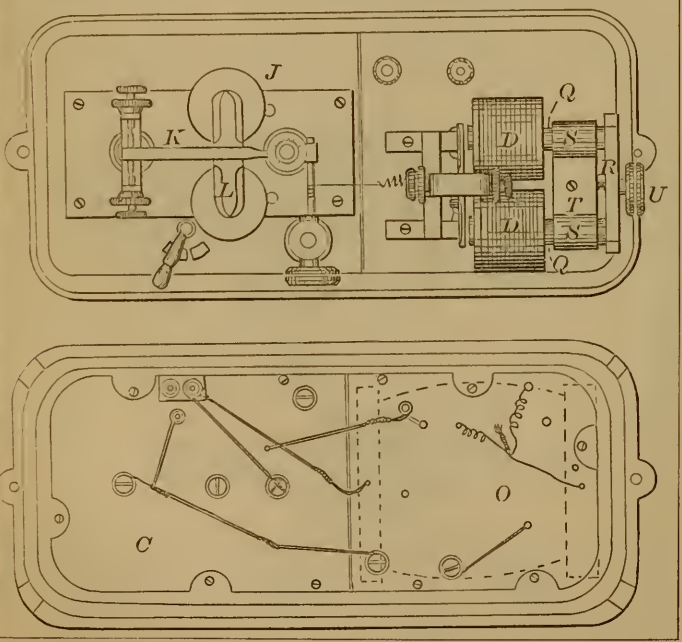
82697—J. S. Dutton—*Screw Plate.*



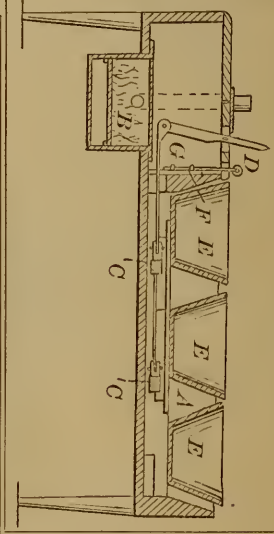
82692—C. Carter—*Mortising Machine.*



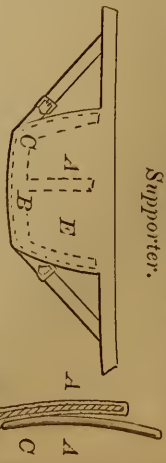
82695—S. F. Day—*Telegraphic Instrument.*



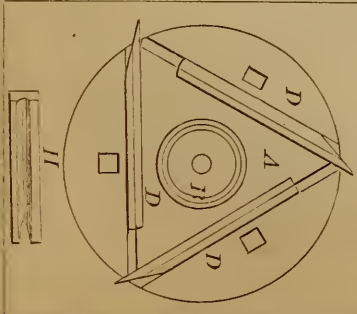
82698—J. A. Edwards—*Milk Vat.*



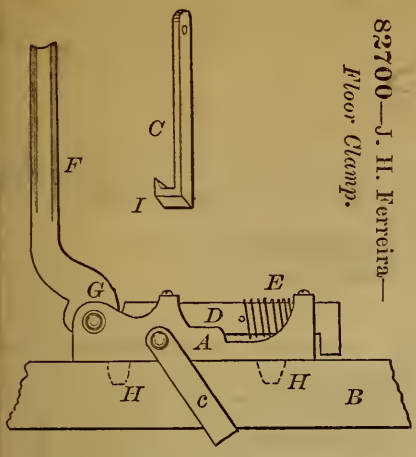
82702—J. Funkhouser—*Abdominal Supporter.*



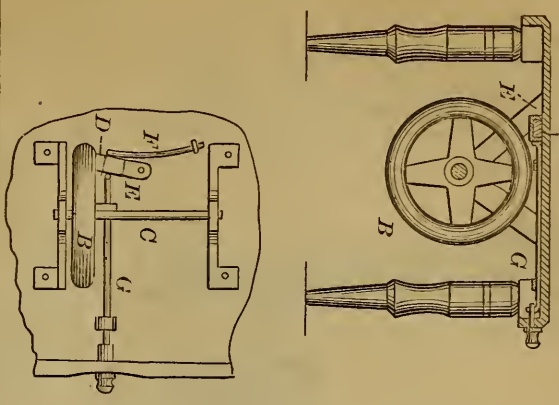
82699—W. G. Farmer—*Cutter Head.*



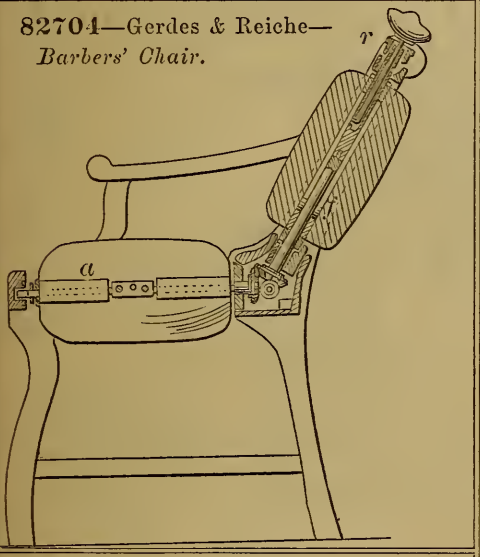
82700—J. H. Ferreira—*Floor Clamp.*



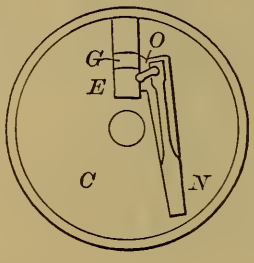
82701—J. S. Fowler—*Sewing Machine Brake.*

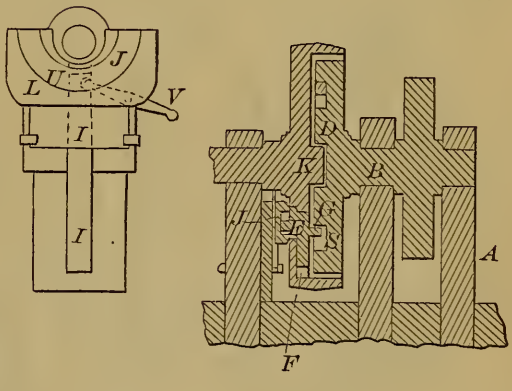


82704—Gerdes & Reiche—*Barbers' Chair.*

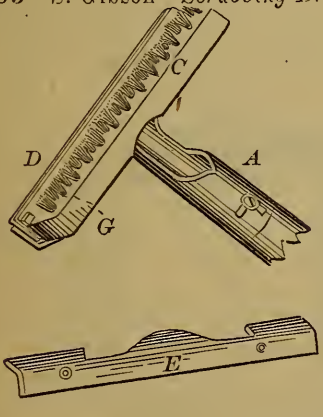


82703—J. P. Gates—*Shaft Coupling.*

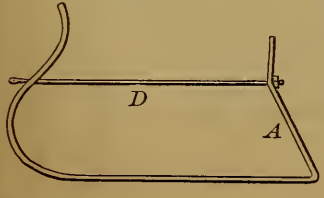




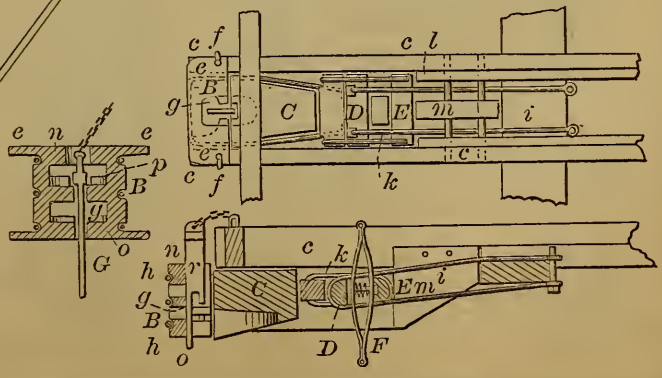
82705—S. Gibson—*Scrubbing Brush.*



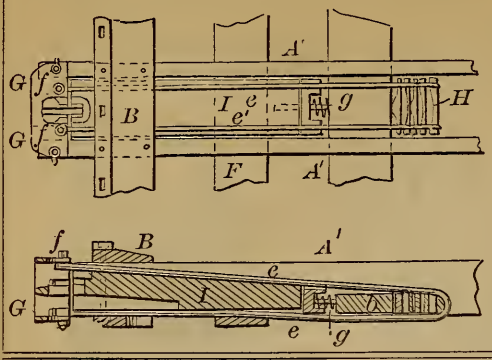
82706—E. H. Gillman—*Sleigh.*



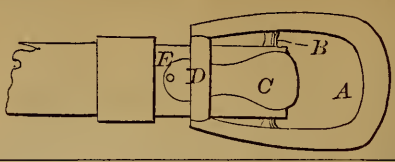
82707—H. C. Glasgow—*Car Coupling.*



82708—H. C. Glasgow—*Car Coupling.*

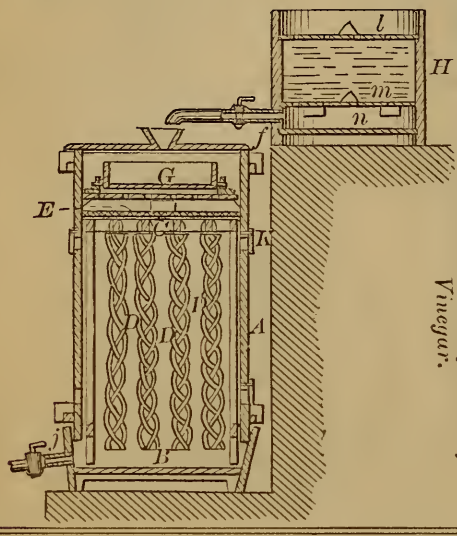


82709—Gordon & Pettengill—*Buckle.*

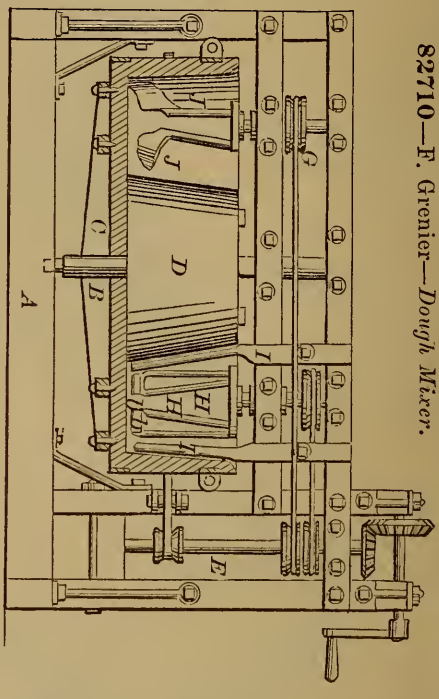


82711—R. C. Grover—*Edye Tool.*

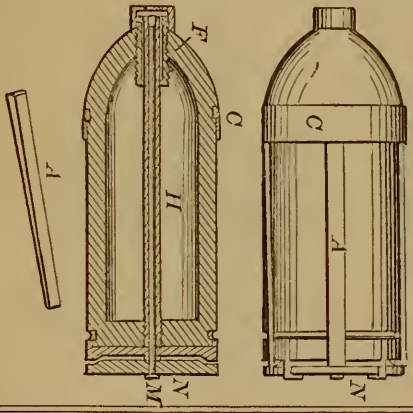
82712—T. Grundmann—*Manufacture of Vinegar.*



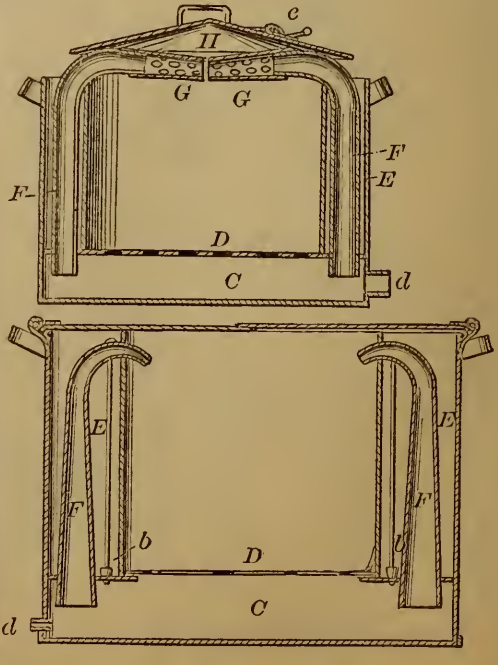
82710—F. Grenier—*Dough Mixer.*



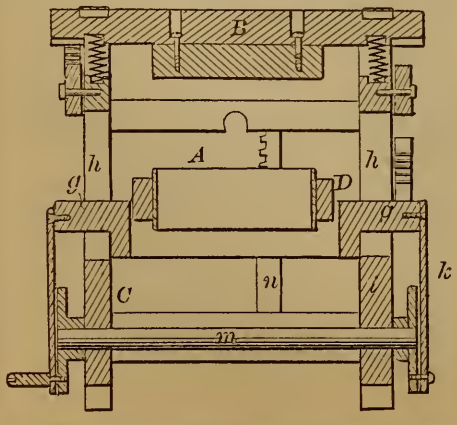
82714—A. O. H. Hardenstein—*Explosive Projectile.*



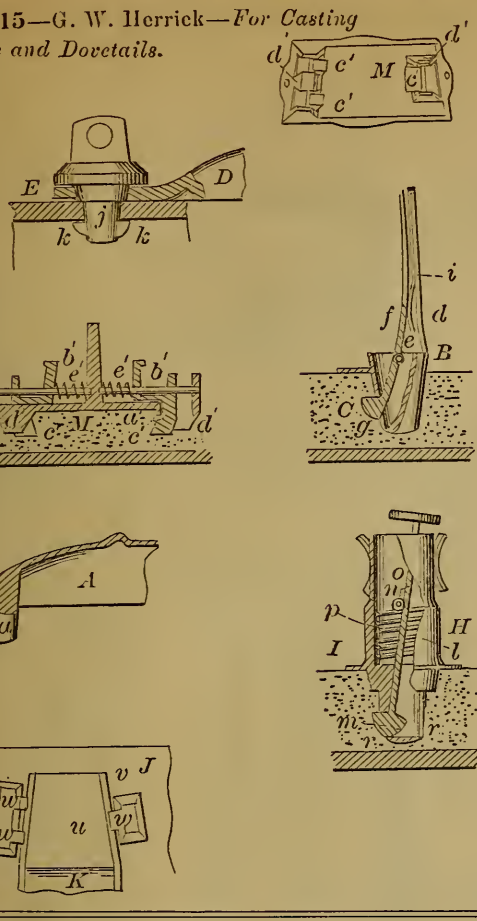
82713—Hammer & Chadwick—*Wash Boiler.*



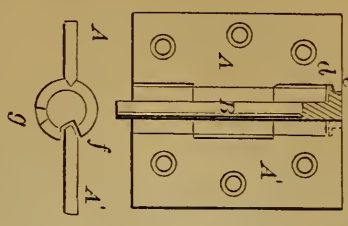
82716—M. Hobbs—*Sole Cutting Machine.*



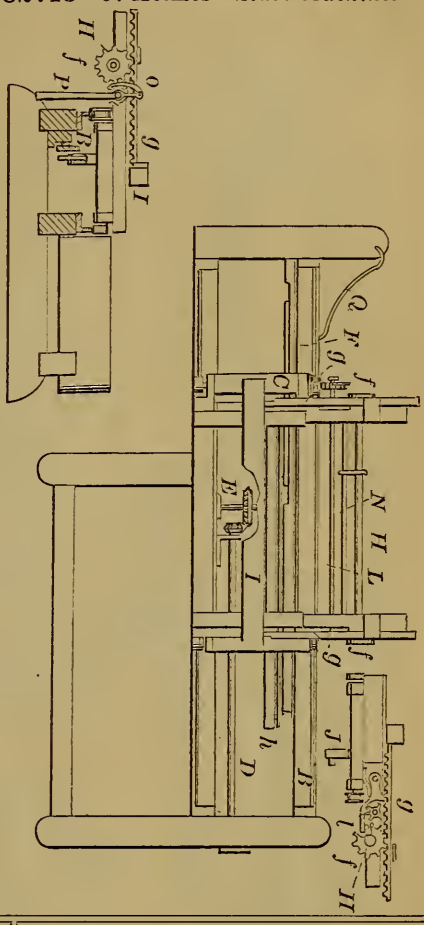
82715—G. W. Herrick—*For Casting Lugs and Dovetails.*



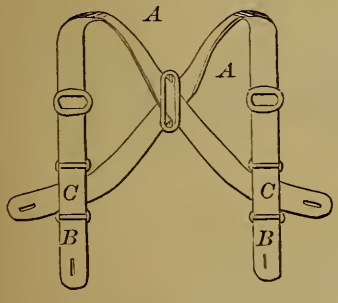
82717—H. Hockemeyer—*Butt Hinge.*



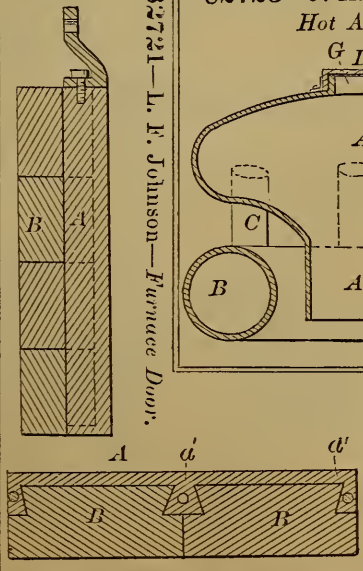
82718—J. Holmes—*Stave Machine.*



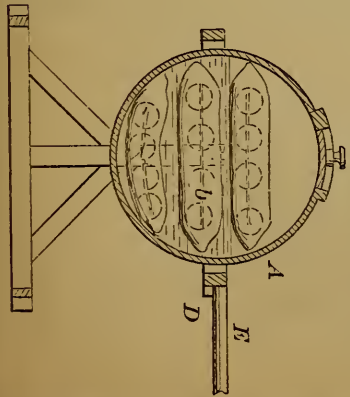
82720—E. Jennings, Jr.—*Suspender and Shoulder Brace.*



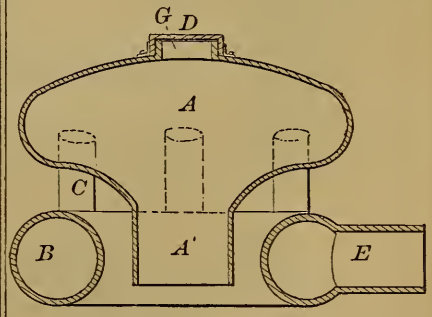
82721—L. F. Johnson—*Furnace Door.*



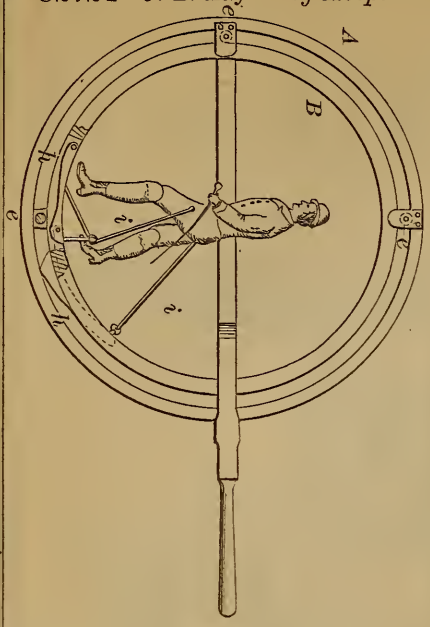
82722—J. S. Kelly—*Washing Machine.*



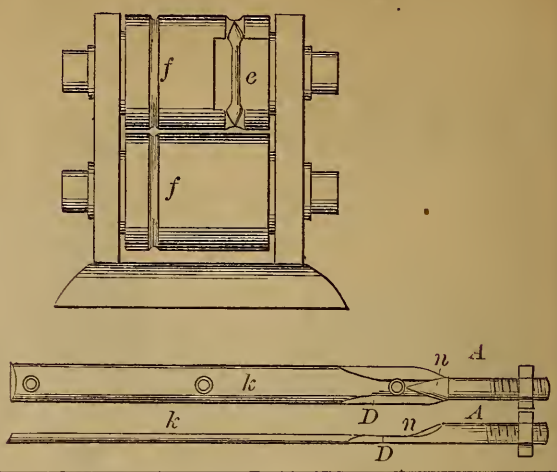
82723—J. H. Keyser—*Drum for Hot Air Furnaces.*



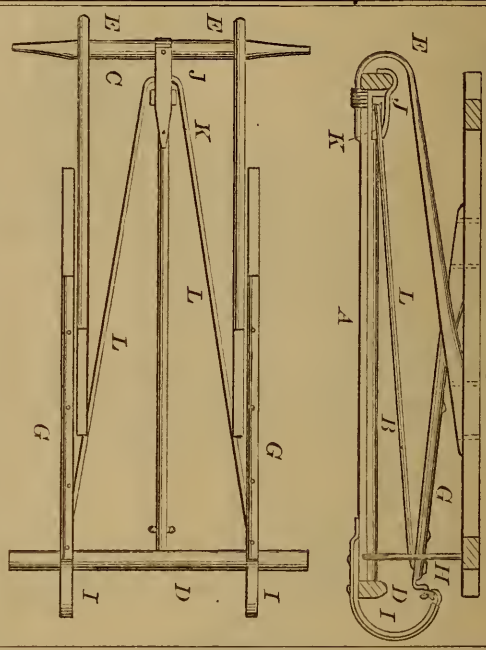
82724—J. L. Lay—*Toy Hoop.*



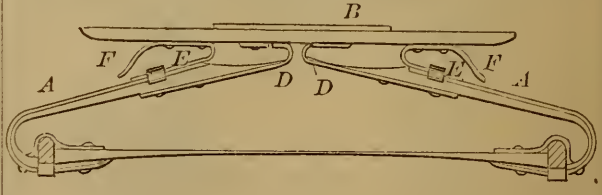
82725—Lewis & Oliver—*Strap Bolt.*



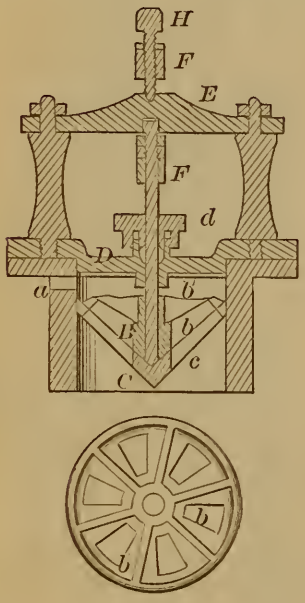
82726—J. R. Locke—*Carriage Spring.*



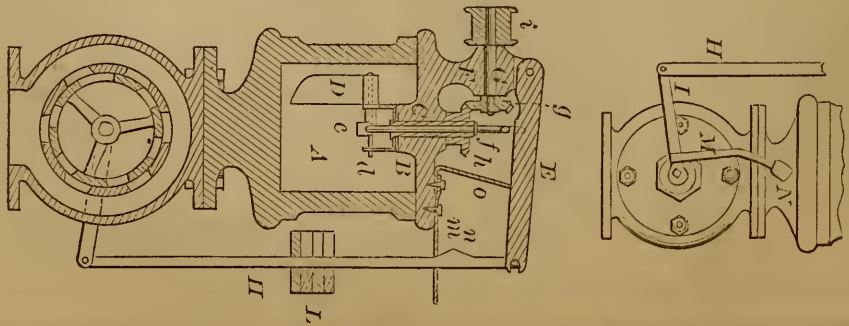
82727—J. R. Locke—*Carriage Spring.*



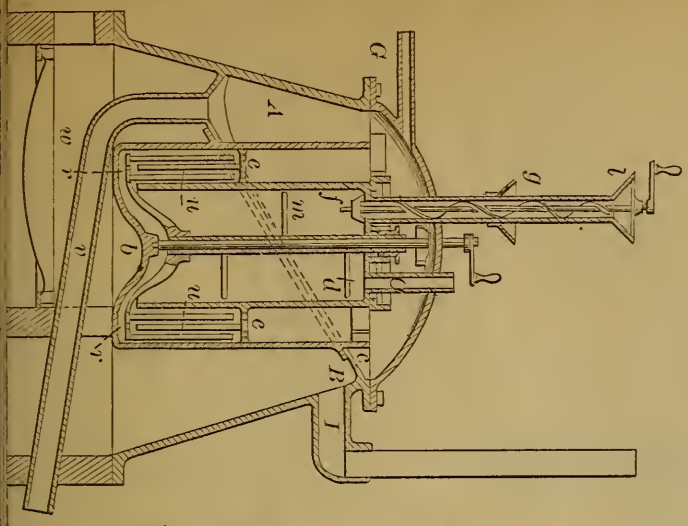
82728—N. H. Loomis—*Steam Engine Valve.*



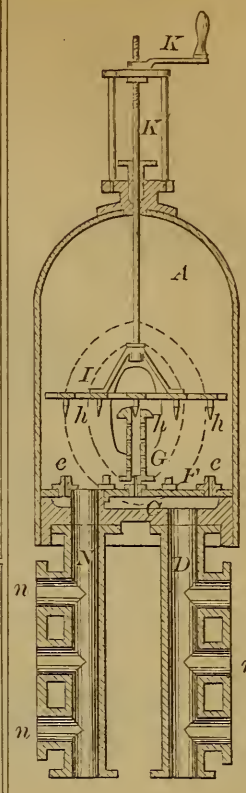
82729—J. A. Marden—*Steam Engine Governor.*



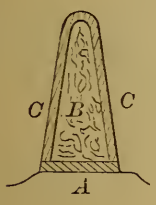
82730—Mariner & Kune—*Amalgamator.*



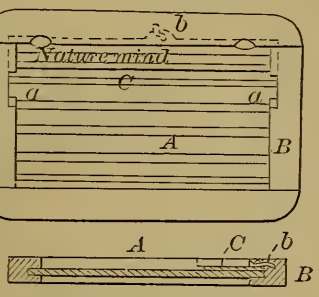
82732—J. G. Marshall—*For Bleaching and Cleansing Yarn.*

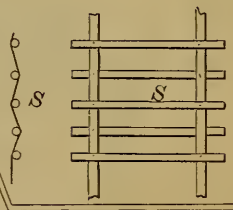


82733—N. Maxon—*Fence.*

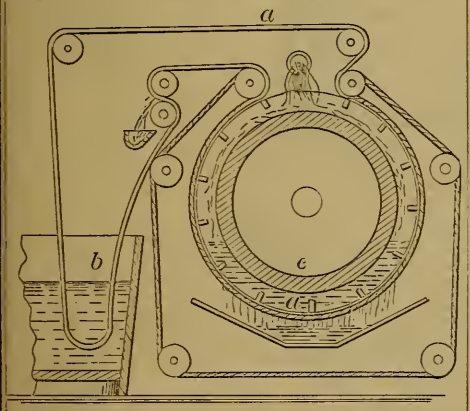


82734—F. Melville—*School Slate.*

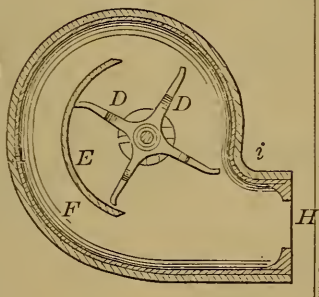




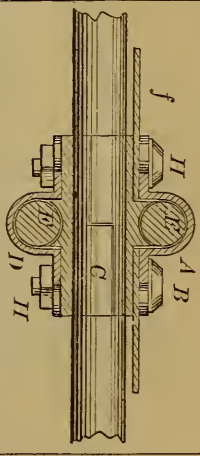
82735—H. Merrill—*Filter.*



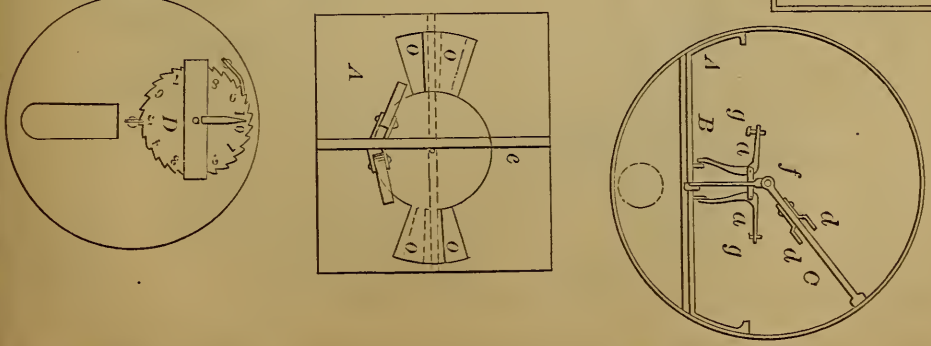
82736—J. Mitchell—*Rotary Blower.*



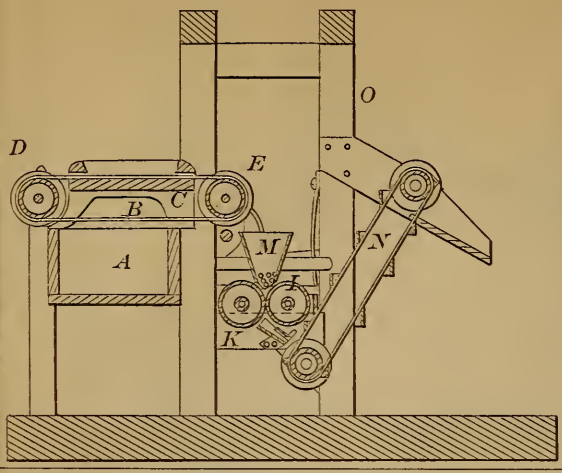
82738—J. M. Moorehead—*Clamp.*



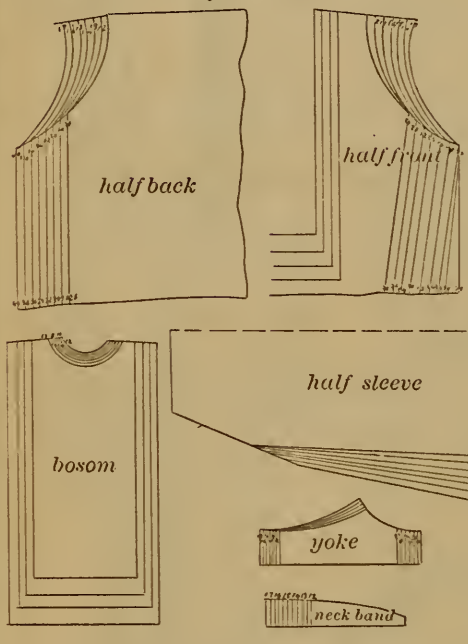
82737—G. R. Moore—*Water Meter.*



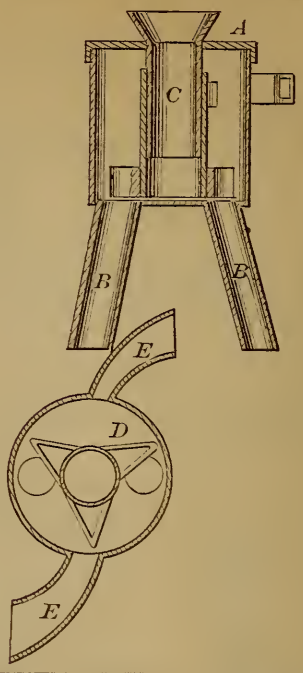
82739—C. H. Moseley—*For Desiccating Leached Tan.*



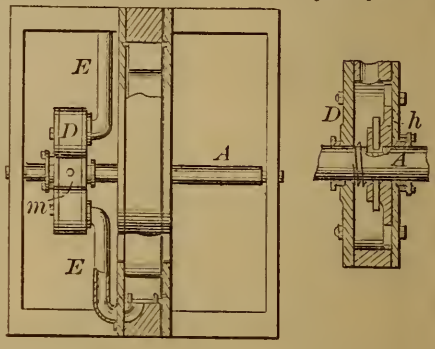
82740—J. H. Myers—*Shirt Pattern.*



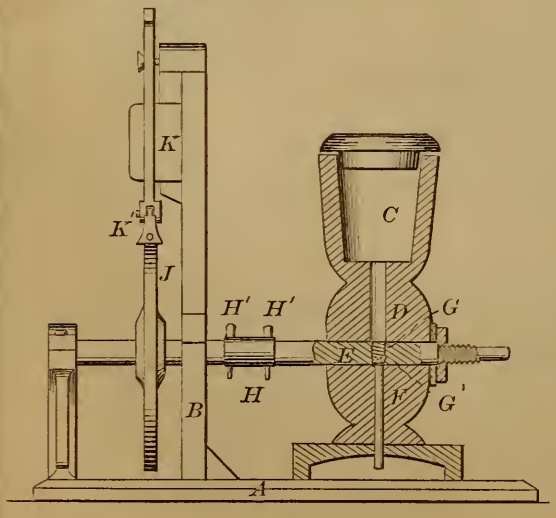
82741—J. Nairn—*Feeding and Cooling Device for Grain Mills.*

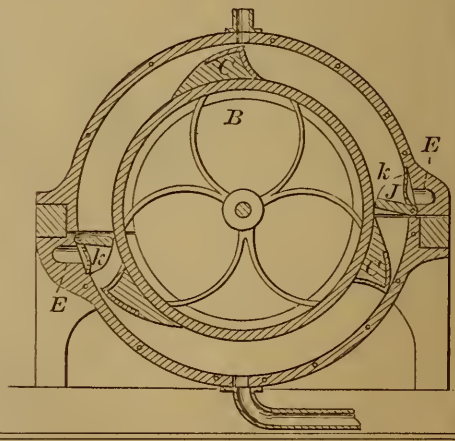


82742—E. Osborn—*Rotary Engine.*

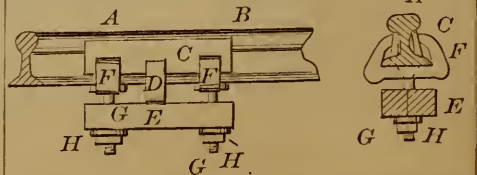


82745—J. Pattison—*Quicksilver Feeder for Quartz Mills.*

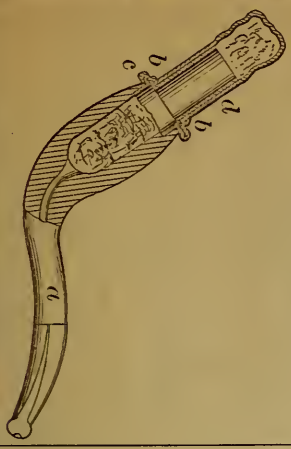




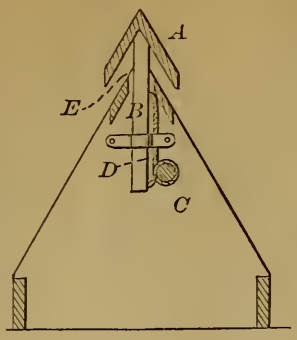
82744—E. G. Patterson—*Railway Rail Joint.*



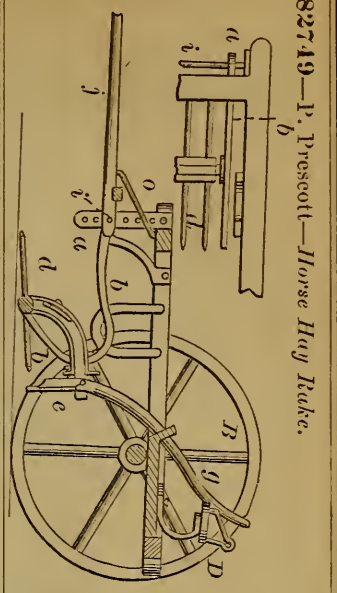
82743—A. A. Pathi—*Cigar Pipe.*



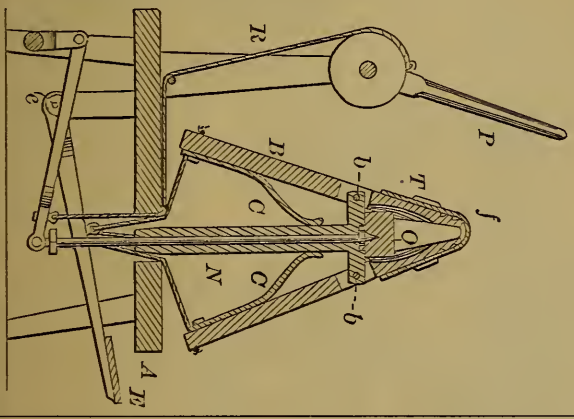
82746—J. & J. Peckham—*Ventilator.*



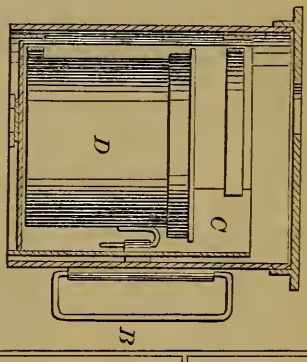
82749—P. Prescott—*Horse Hay Rake.*



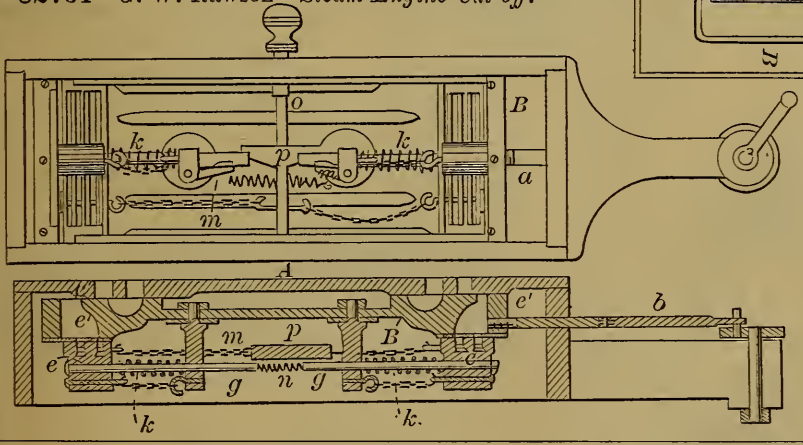
82748—S. Polley—*For Blocking Hats.*



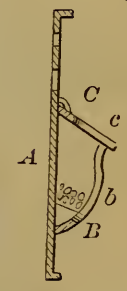
82750—G. W. Putnam—*Lantern.*



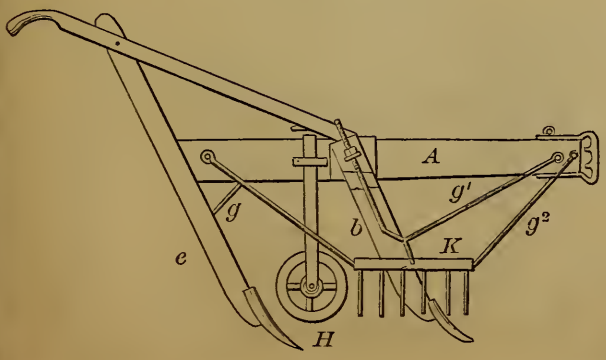
82751—G. W. Rawson—*Steam Engine Cut-off.*



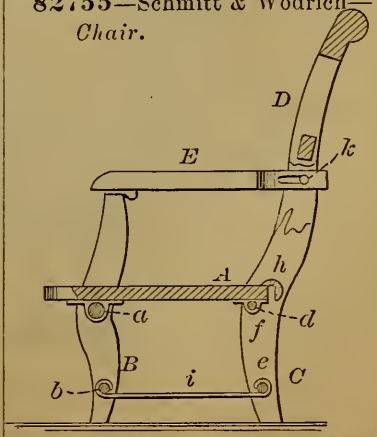
82752—H. Richmond—*Match Safe.*



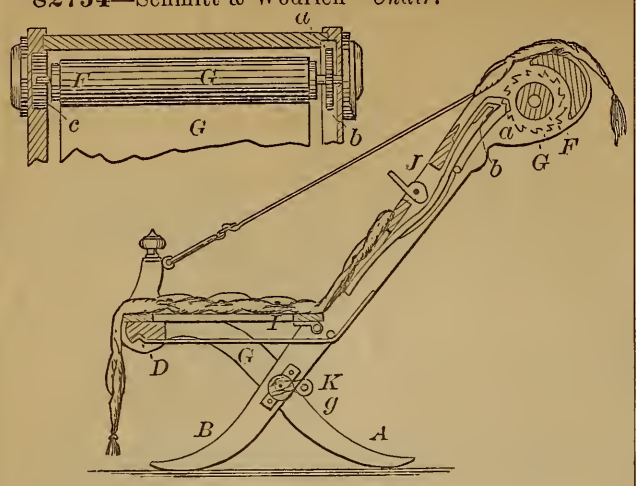
82753—W. Rodgers—*Cultivator.*



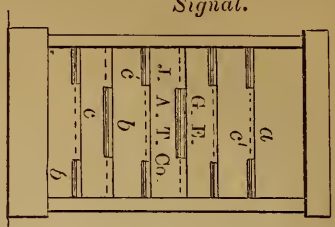
82755—Schmitt & Wodrich—*Chair.*



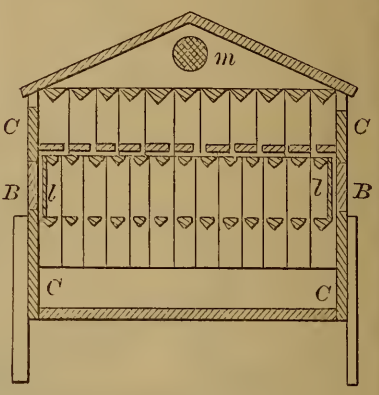
82754—Schmitt & Wodrich—*Chair.*

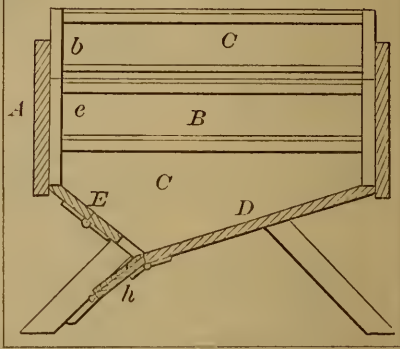


82756—C. H. Seawell—*Express Signal.*

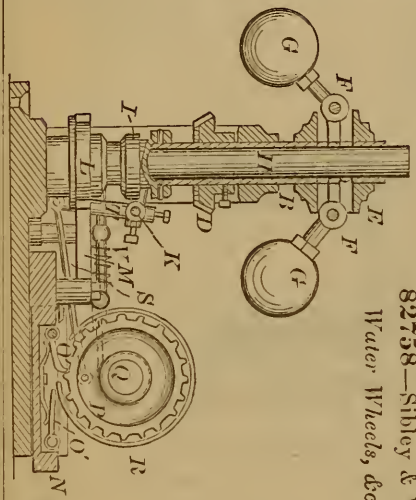


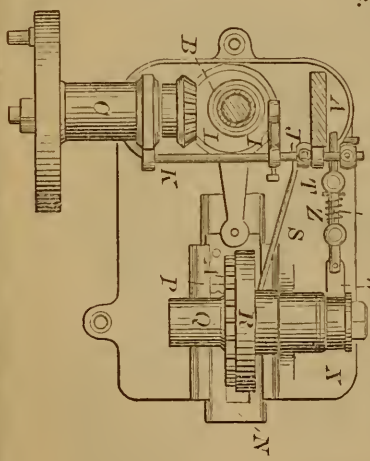
82757—T. Shields—*Beehive.*



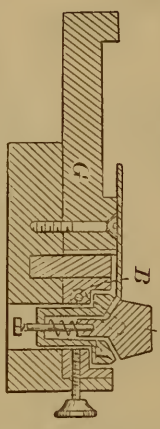


82758—Sibley & Walsh—*Governor for Engines, Water Wheels, &c.*

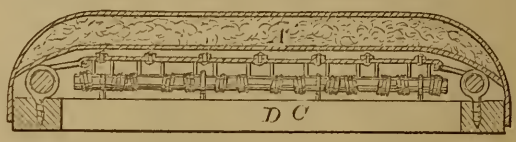


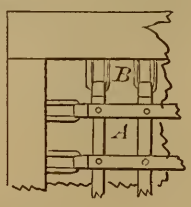


82759—L. T. Smart—*Saw Set.*

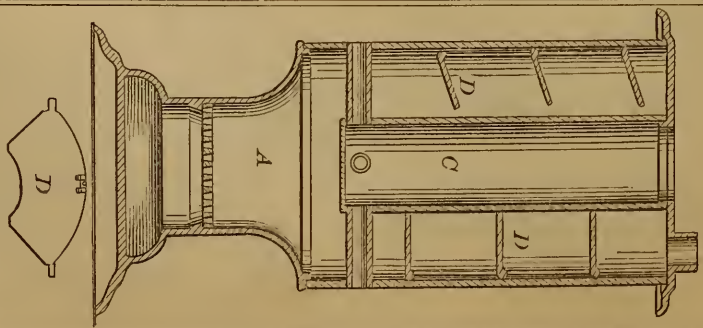


82760—C. B. Smith—*Spring Seat.*

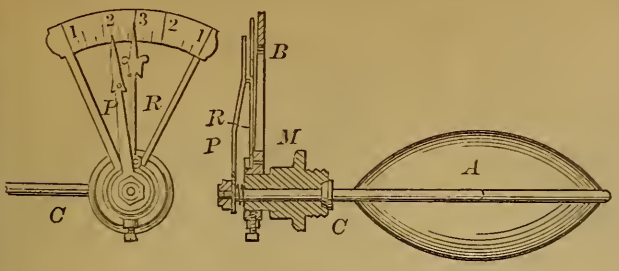




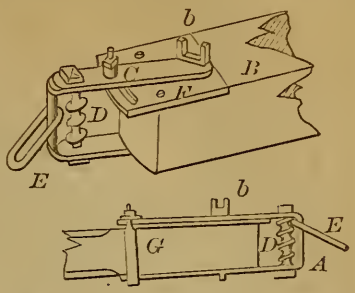
82761—C. D. F. Smith—*Stove Drum.*



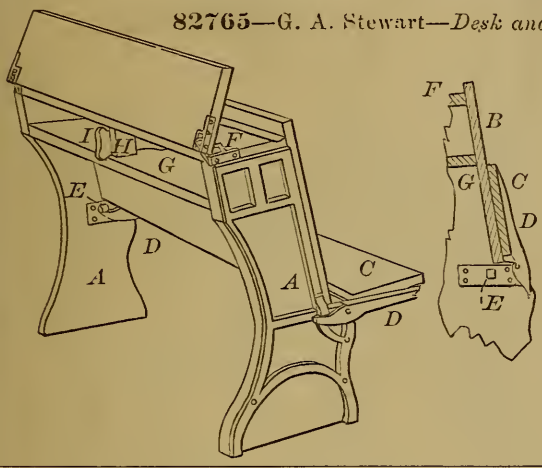
82762—H. P. & H. H. Stafford—*Water Gauge.*



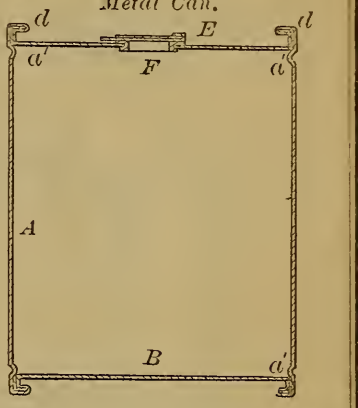
82764—D. Stewart—*Plow Clevis.*



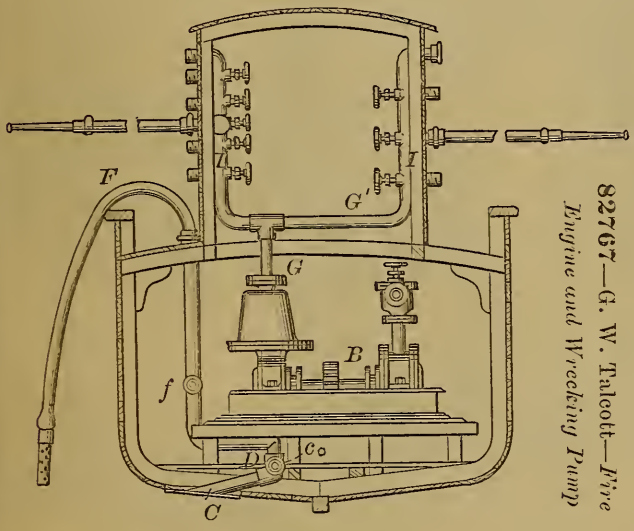
82765—G. A. Stewart—*Desk and Seat.*



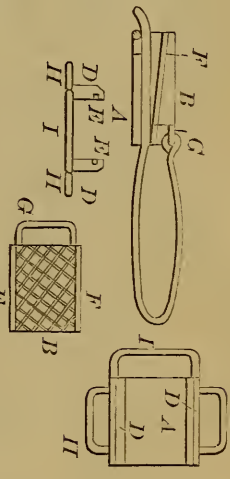
82766—J. H. Stone—*Sheet Metal Can.*



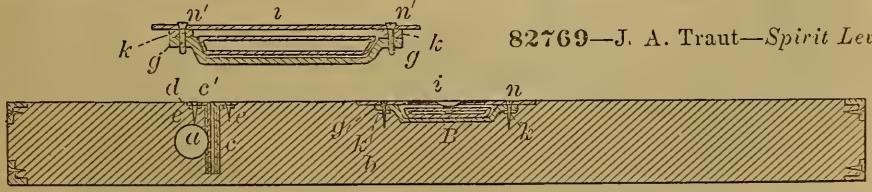
82767—G. W. Talcott—*Fire Engine and Wrecking Pump*



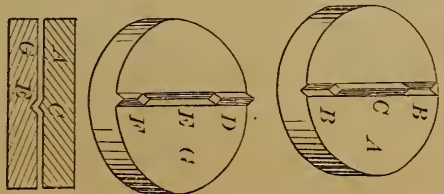
82768—S. A. Tenny—*Buckle.*



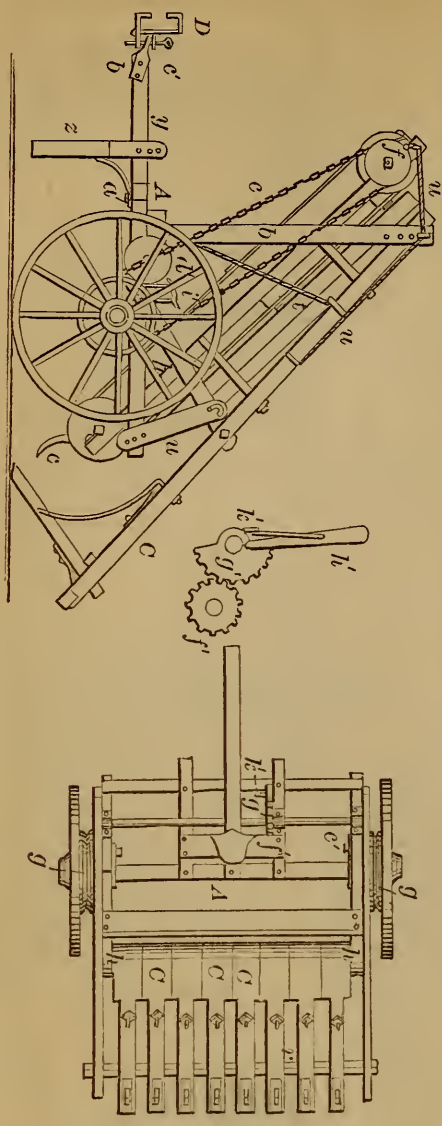
82769—J. A. Traut—*Spirit Level.*



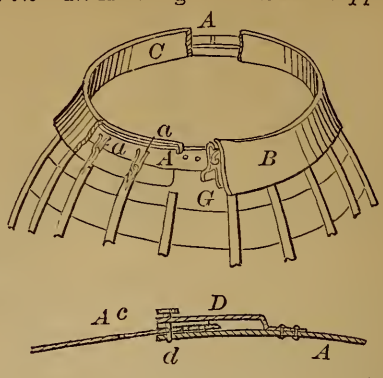
82771—I. Van Hagen—*Die for Stamping Stove Pipe Dampers.*



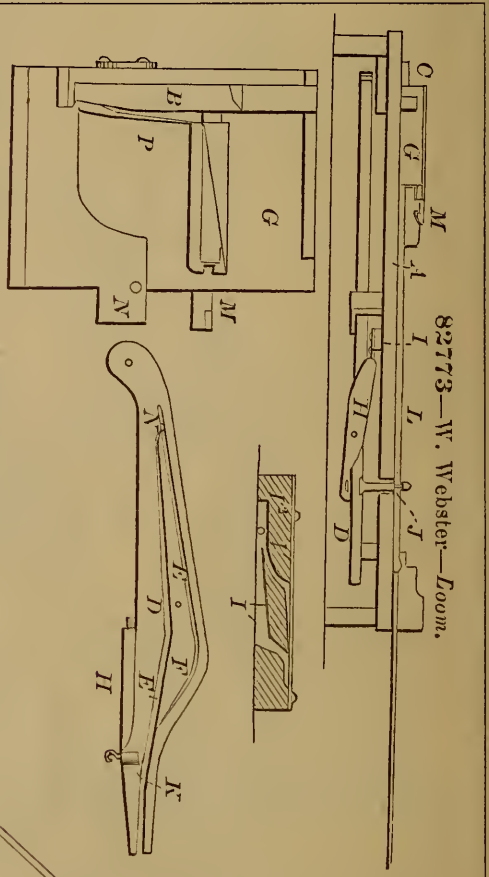
82770—L. Underwood—*Hay Raker and Loader.*



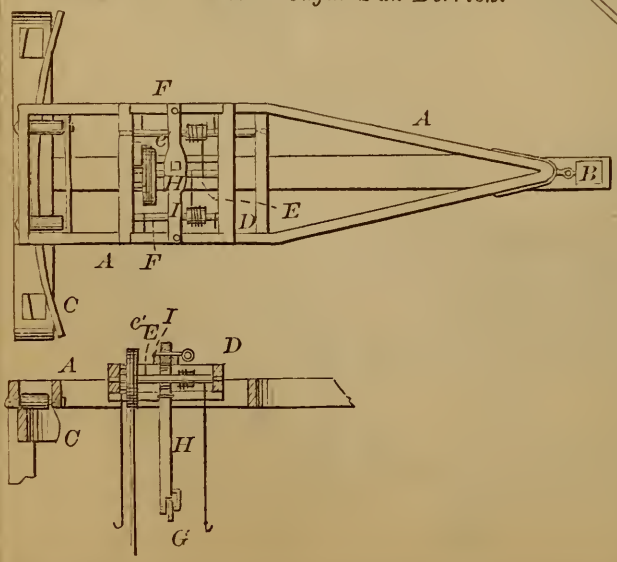
82772—N. A. Vurgason—*Skirt Supporter.*



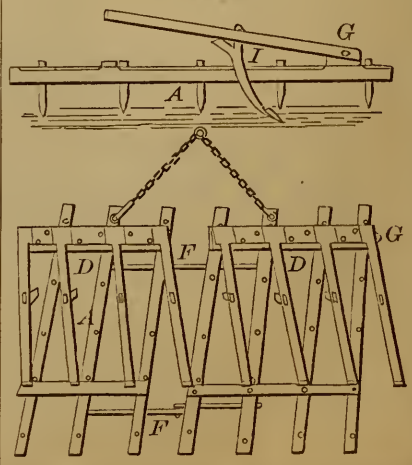
82773—W. Webster—*Loom.*



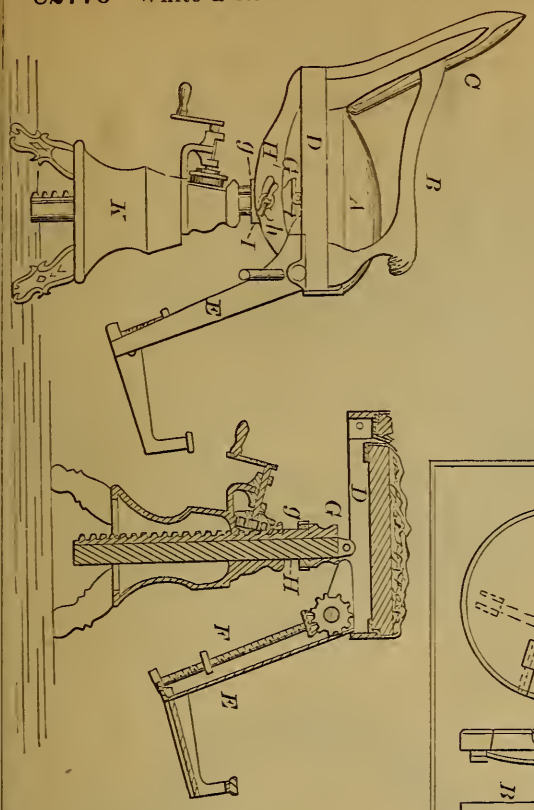
82774—A. J. Weed—*Sugar Pan Derrick.*



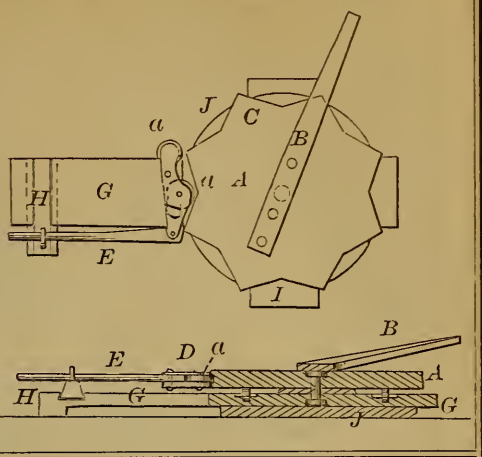
82775—N. W. Wheeler—*Harrow and Cultivator.*



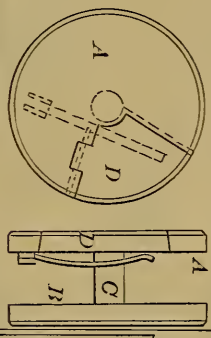
82776—White & Ashmead—*Dentists' Chair.*



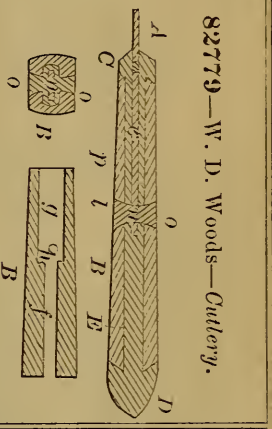
82777—B. H. Wilcox—*Horse Power.*



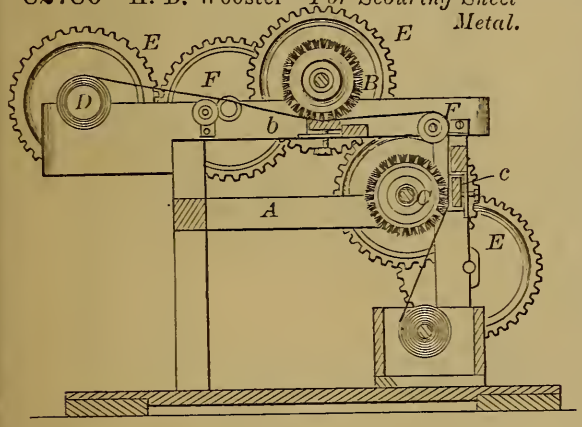
82778—F. Wittram—*Button.*



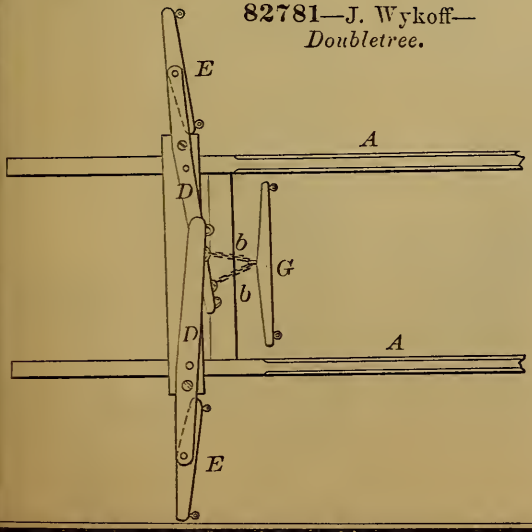
82779—W. D. Woods—*Cutlery.*



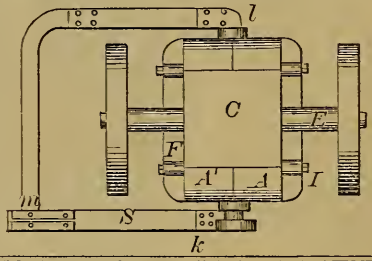
82780—H. B. Wooster—*For Scouring Sheet Metal.*



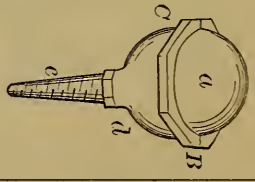
82781—J. Wykoff—*Doubletree.*



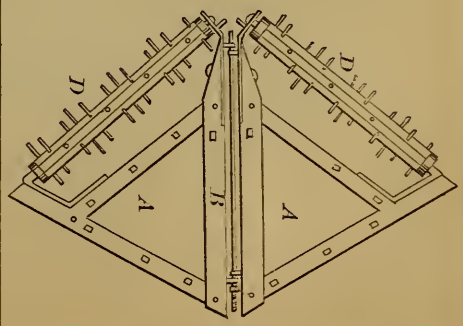
82782—G. W. N. Yost—*Harvester.*



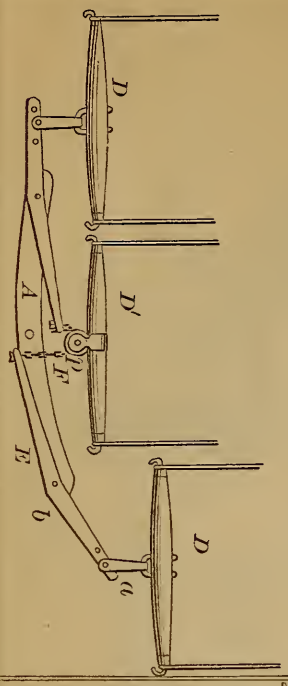
82783—A. T. Adams—*Caster.*



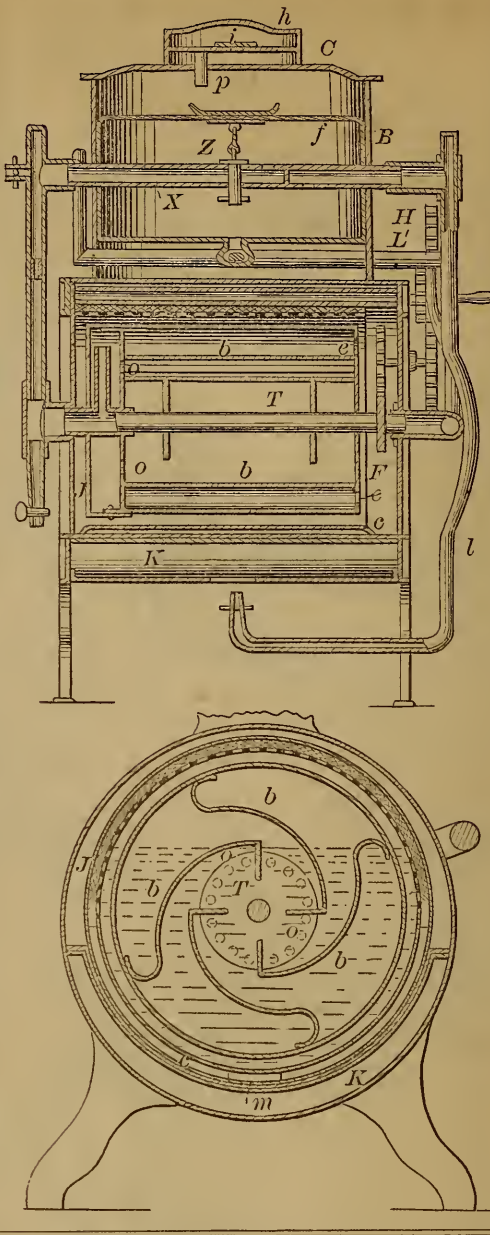
82784—T. H. Ashton—*Clod Crusher.*



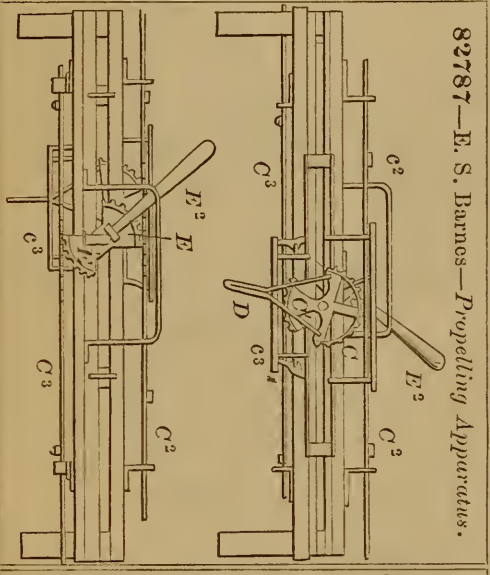
82785—H. W. Austin—*Equalizing Whiffletree.*



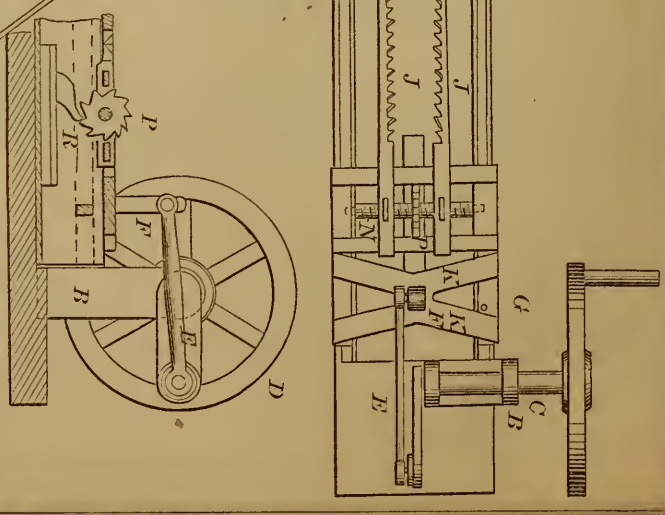
82786—N. W. Bancroft—*Gas Machine.*



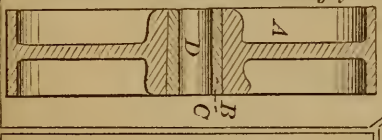
82787—E. S. Barnes—*Propelling Apparatus.*



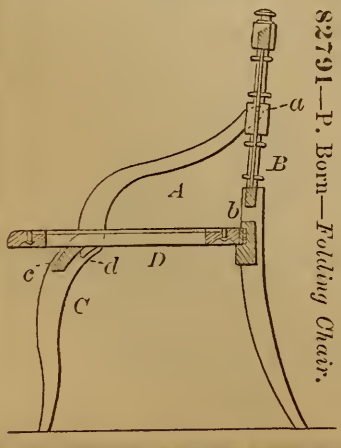
82789—F. Bauschtliker—*Saw for Felling Trees.*



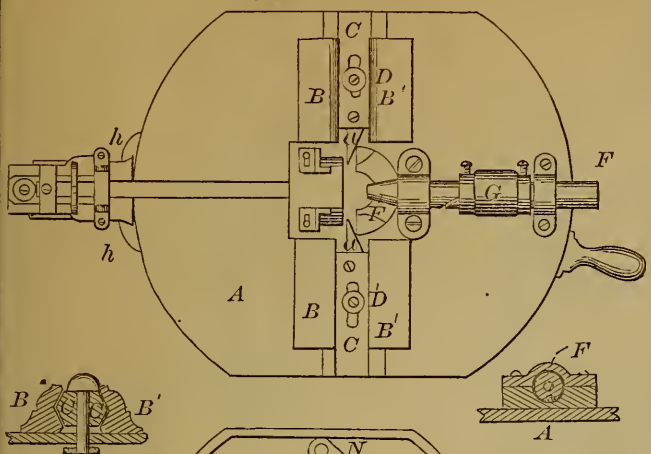
82790—T. Blake—*Bushing for Wheels.*

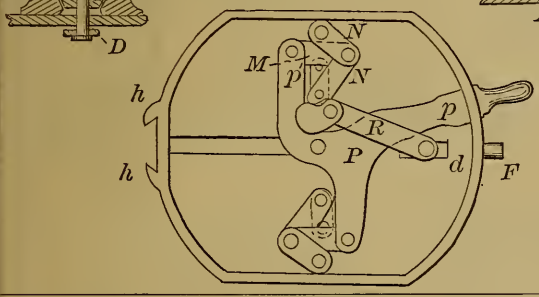


82791—P. Born—*Folding Chair.*

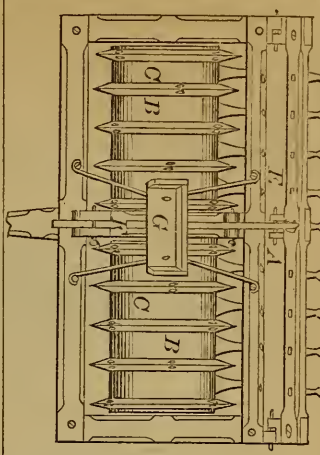


82792—Bowdle, Lawder & Johnston—*For Tenoning Blind Slats.*

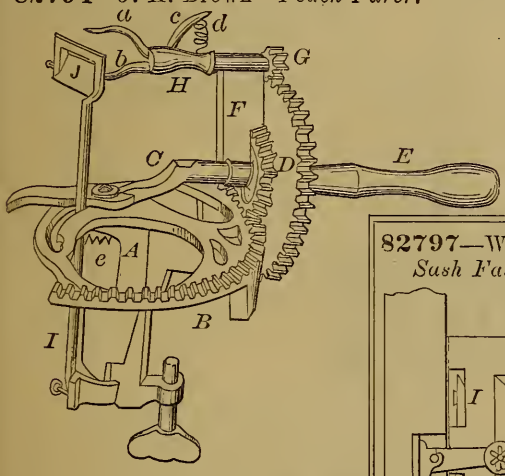




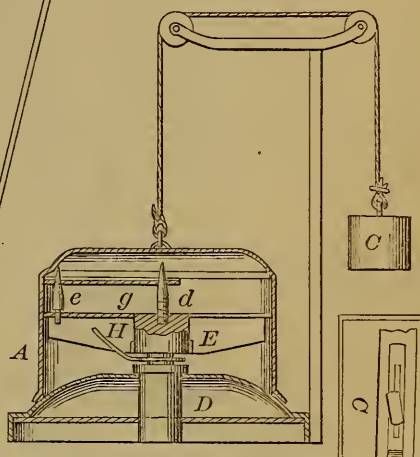
82793—J. Brewer—*Land Roller.*



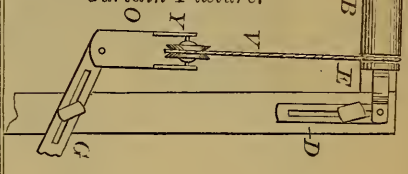
82794—J. H. Brown—*Peach Parer.*



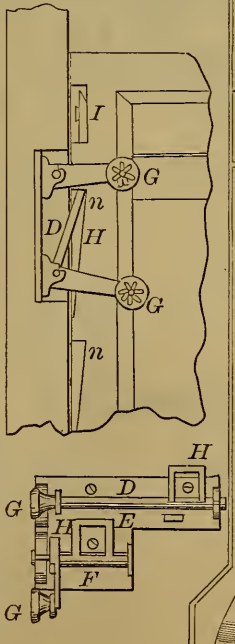
82795—S. S. Brown—*Cheese Cutter and Box.*



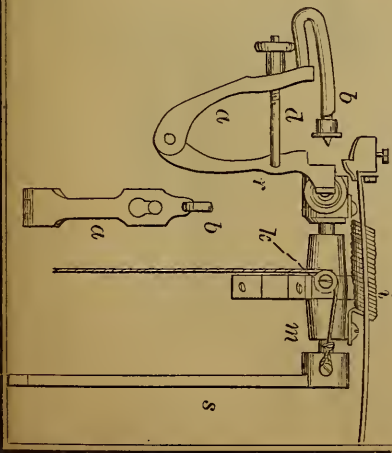
82796—S. S. Brown—*Curtain Fixture.*



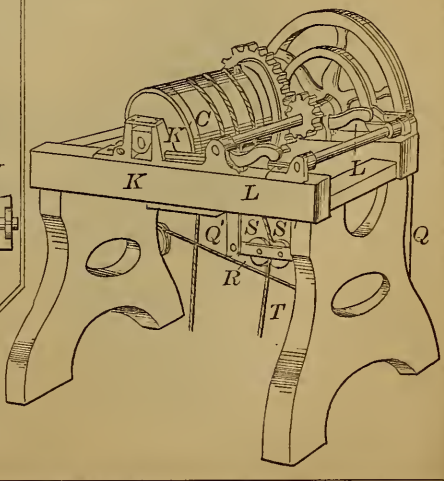
82797—W. Brown—*Sash Fastening.*



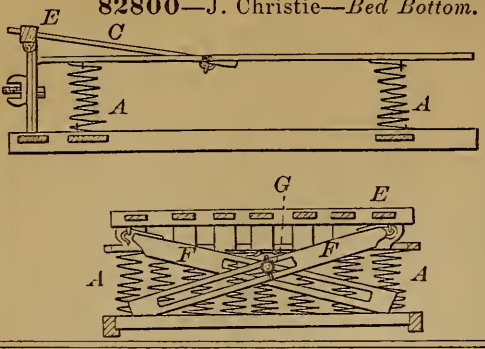
82798—B. Q. Budding—*Heel Polishing Machine.*



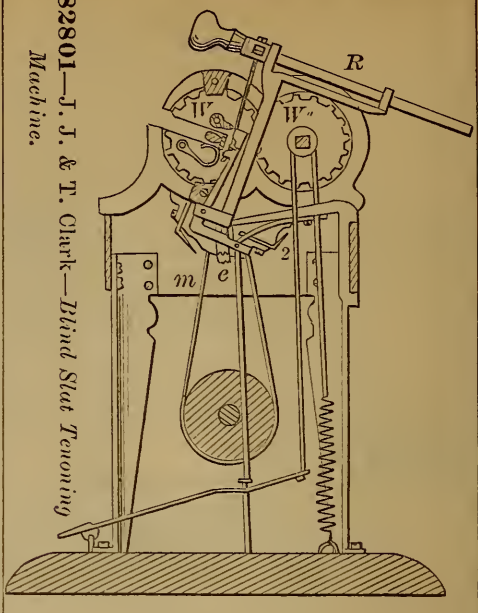
82799—F. P. Canfield—*Hoisting Apparatus.*



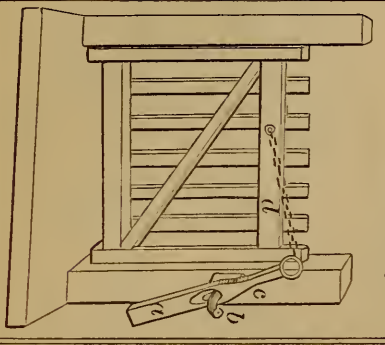
82800—J. Christie—*Bed Bottom.*

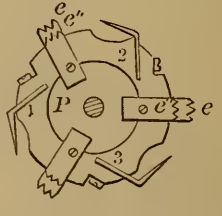


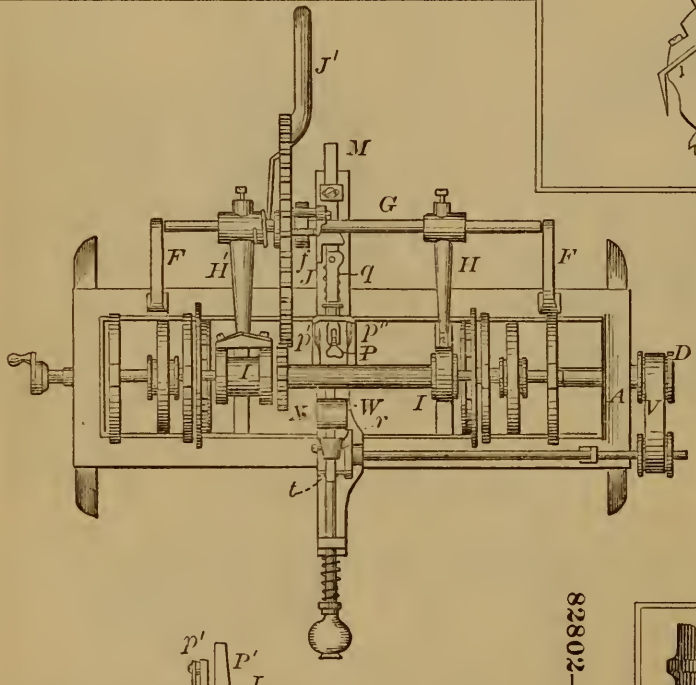
82801—J. J. & T. Clark—*Blind Slat Tenoning Machine.*



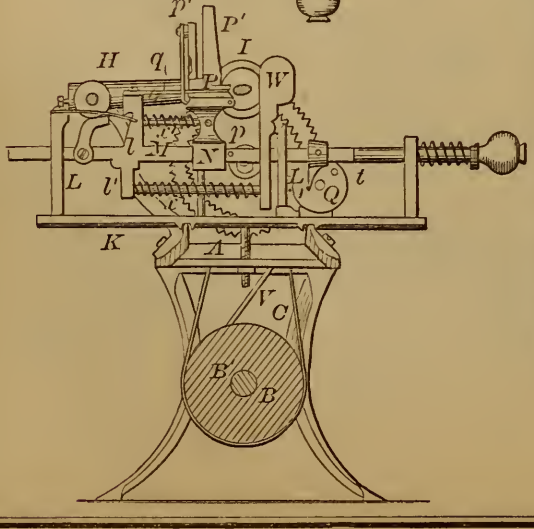
82804—H. N. Conklin—*Door and Gate Closer.*



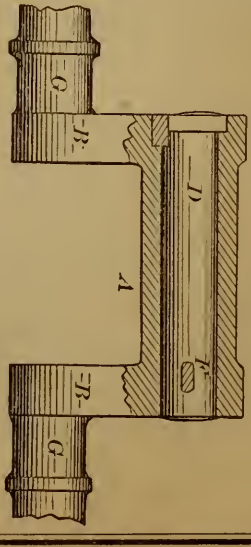




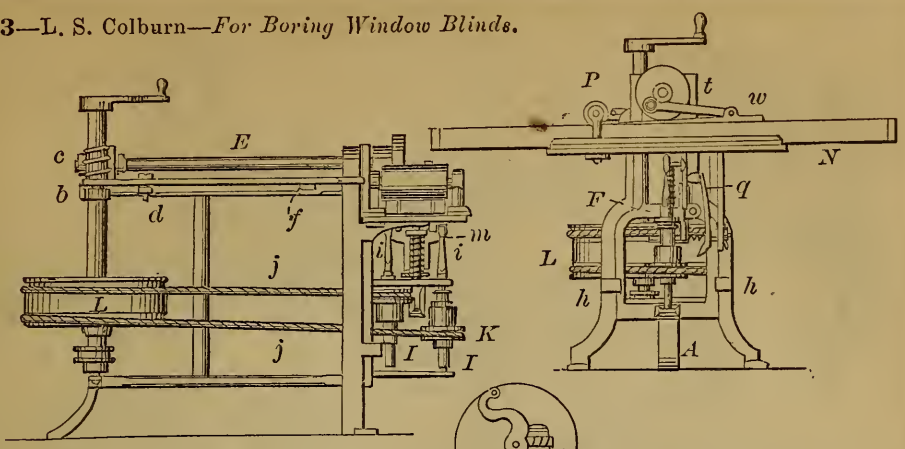
82802—L. S. Colburn—*Slat Machine.*



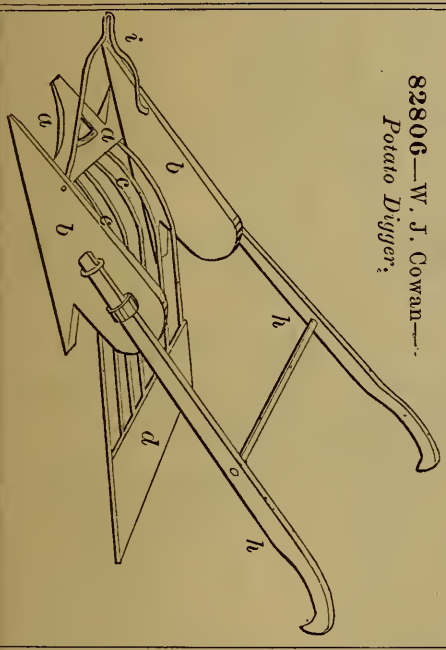
82805—J. Converse—*Crank Shaft.*

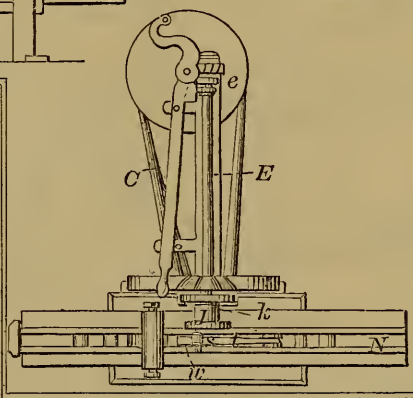


82803—L. S. Colburn—*For Boring Window Blinds.*

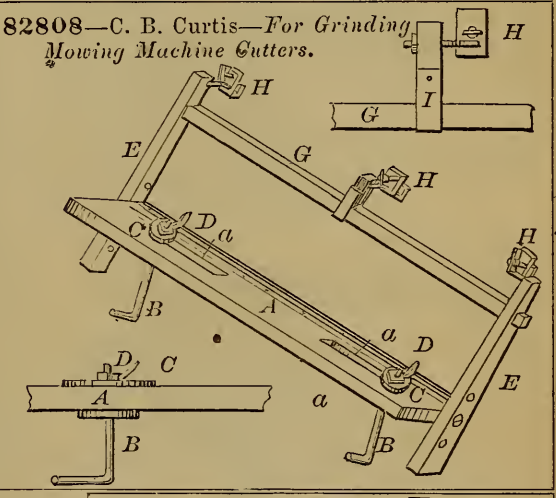


82806—W. J. Cowan—*Potato Digger.*

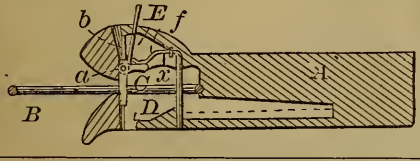




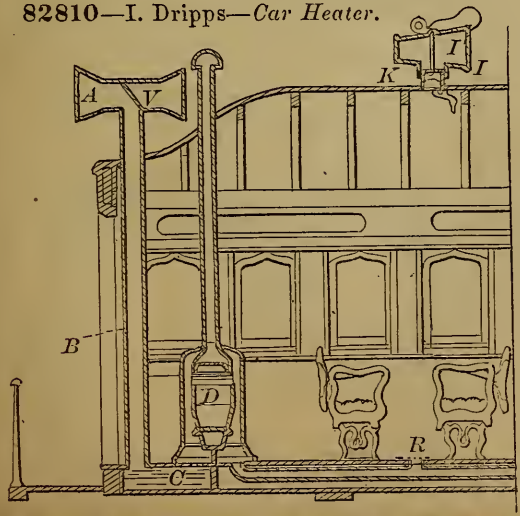
82808—C. B. Curtis—*For Grinding Mowing Machine Cutters.*



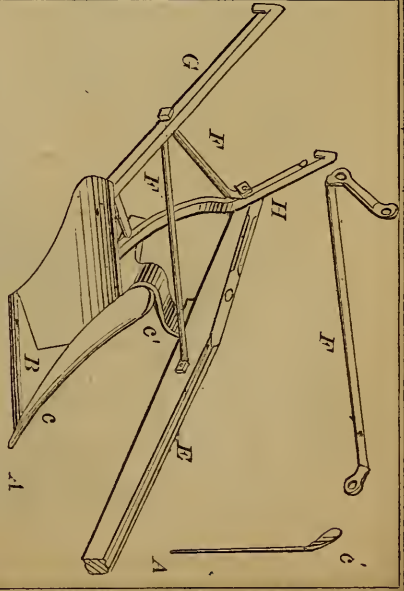
82807—R. A. Cowell—*Car Coupling.*



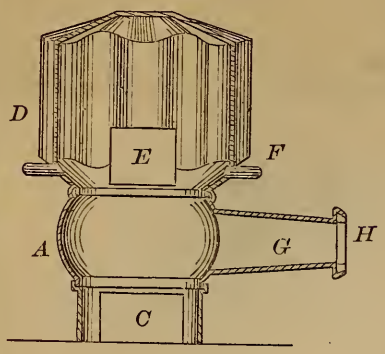
82810—I. Dripps—*Car Heater.*



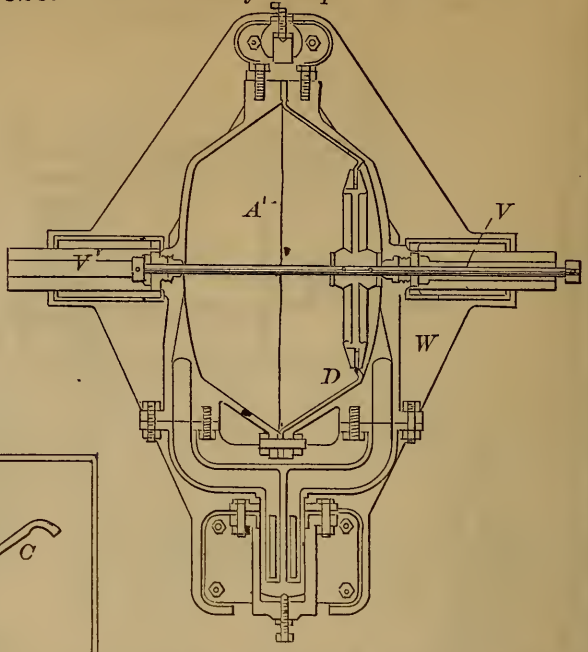
82809—S. T. Denise—*Plow.*



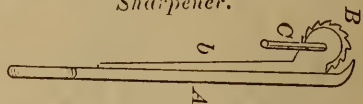
82811—J. B. Driscole—*Hot Air Furnace.*



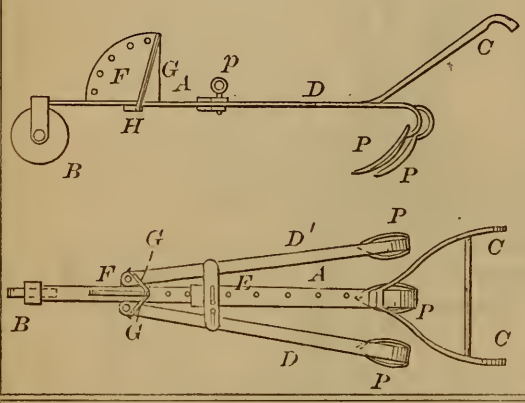
82812—E. M. Du Boys—*Liquid Meter.*



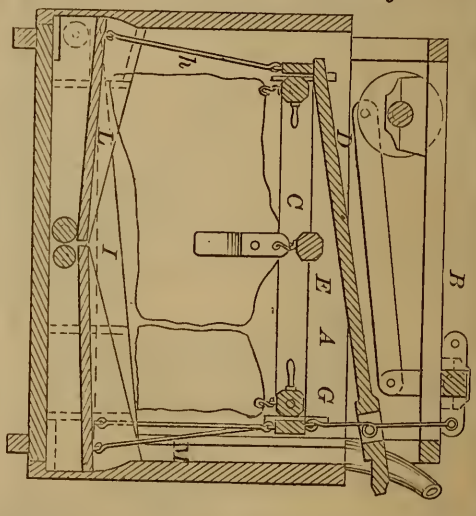
82813—W. Duncan—*Horse Shoe Calk Sharpener.*



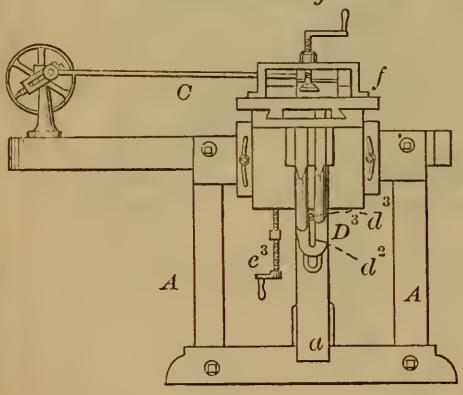
82814—D. S. Early—*Cultivator.*

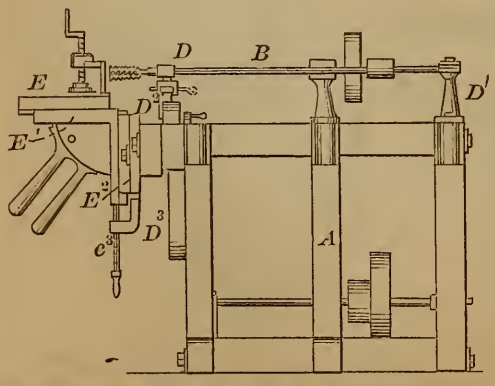


82815—A. G. Eaton—*For Tanning Hides.*

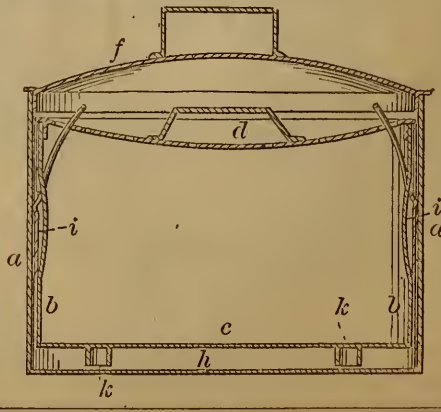


82816—J. Felber—*For Mortising, Slotting and Dovetailing.*

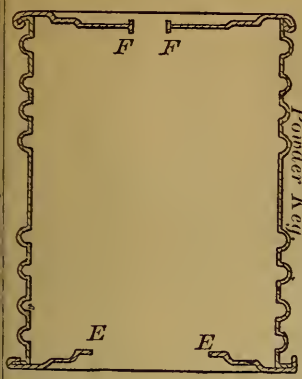




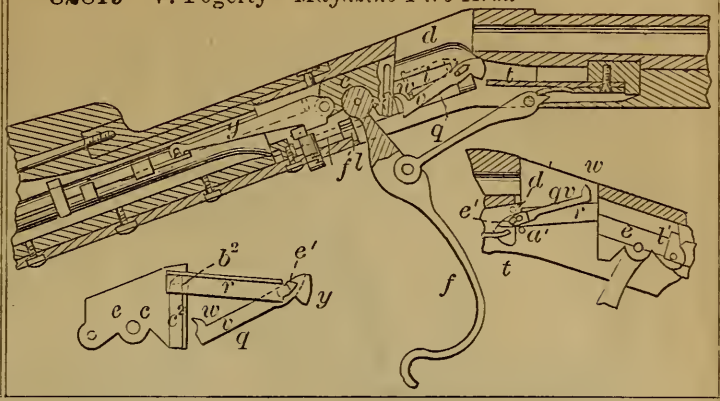
82817—G. Fenn—*Wash Boiler.*



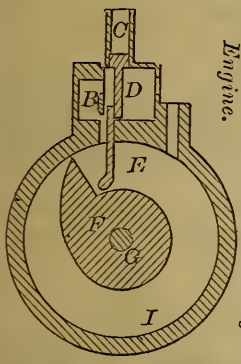
82818—J. B. & D. J. Fleming—*Powder Key.*



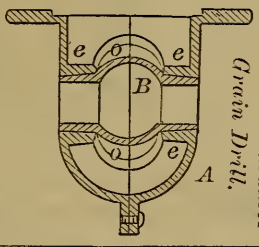
82819—V. Fogerty—*Magazine Fire Arm.*



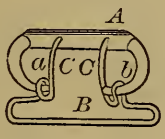
82820—C. G. Foote—*Rotary Engine.*



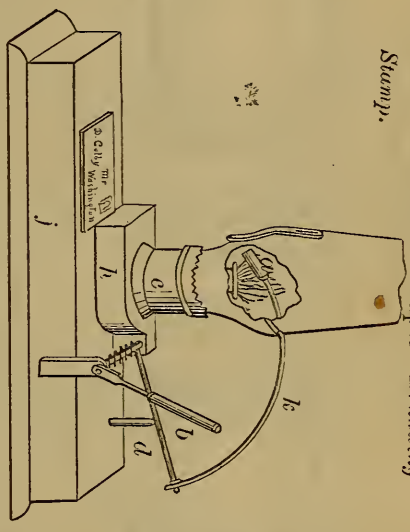
82822—C. O. Gardiner—*Grain Drill.*



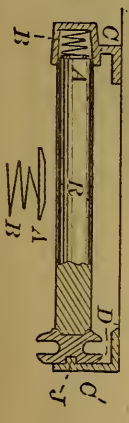
82821—M. Fowler—*Buckle.*



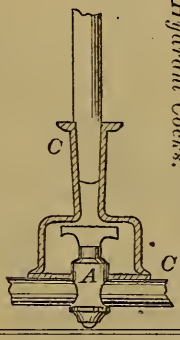
82823—Garretson & Draper—*Branding Stamp.*



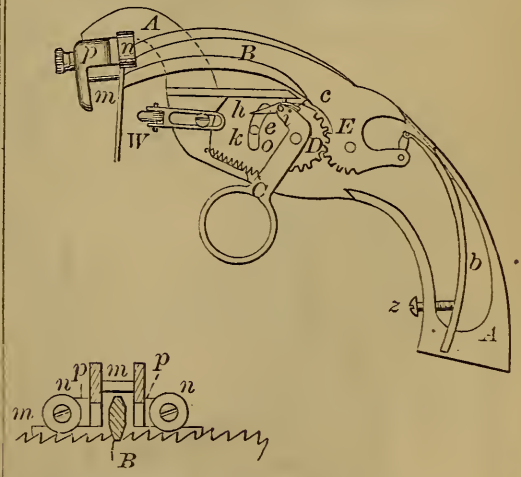
82824—A. F. Gerald—*Curtain Fixture.*



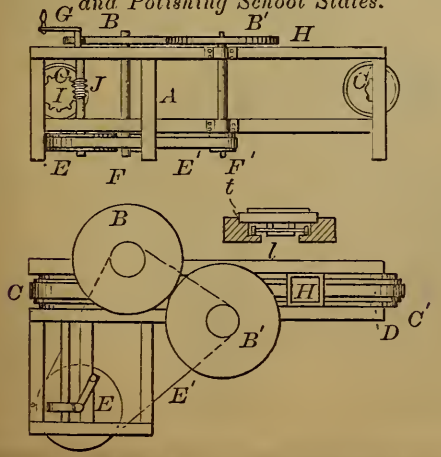
82827—P. H. Griffin—*Key for Hydrant Cocks.*



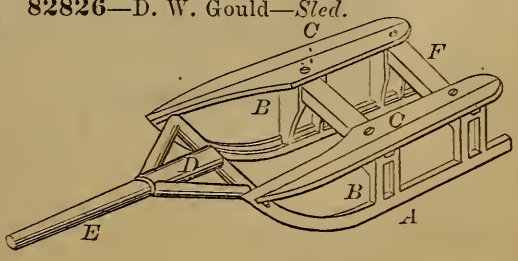
82825—W. E. Goodenough—*Saw Set.*



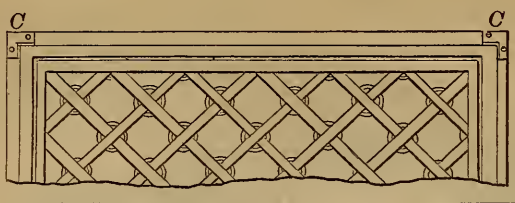
82828—S. Hagaman—*For Grinding and and Polishing School Slates.*



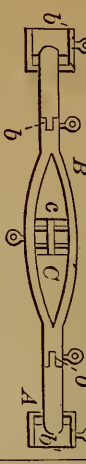
82826—D. W. Gould—*Sled.*



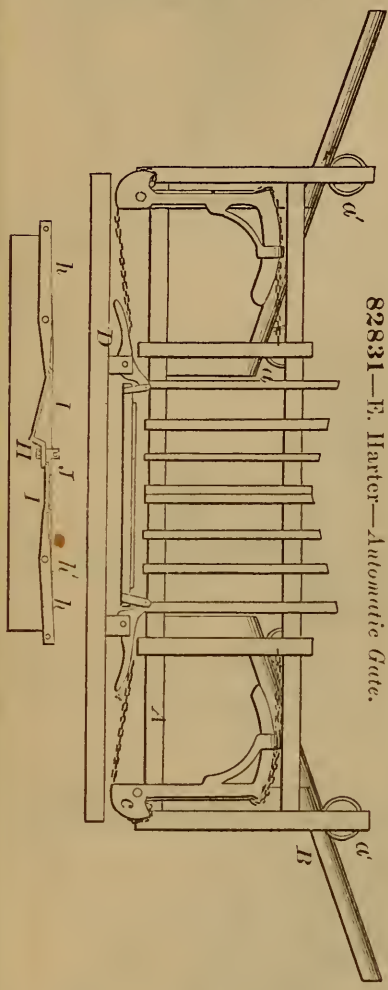
82829—H. J. Hale—*Bed Bottom.*



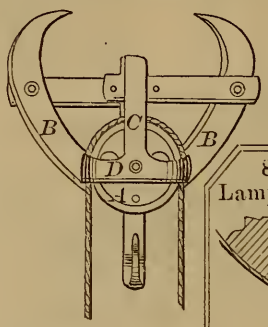
82830—A. F. Hammel—*Breast Yoke for Harness.*



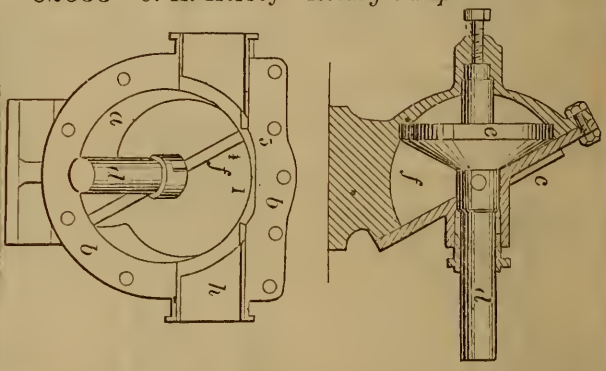
82831—E. Harter—*Automatic Gate.*



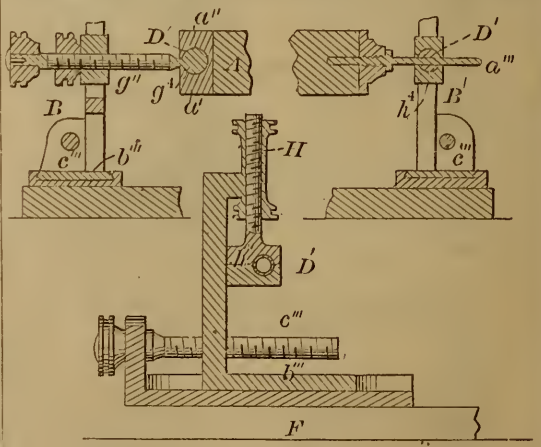
82832—W. H. Hawley—*Grappling Iron.*



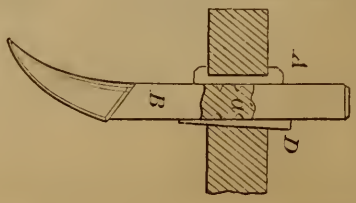
82833—C. H. Hersey—*Rotary Pump.*



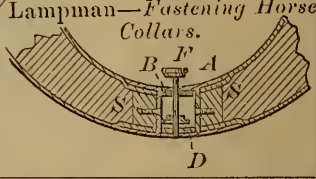
82834—W. O. Hickok—*Paper Ruling Machine.*



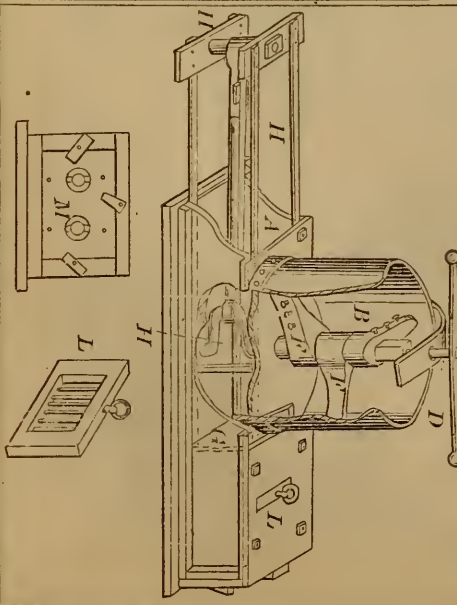
82835—P. V. Hixon—*Harrow Teeth.*



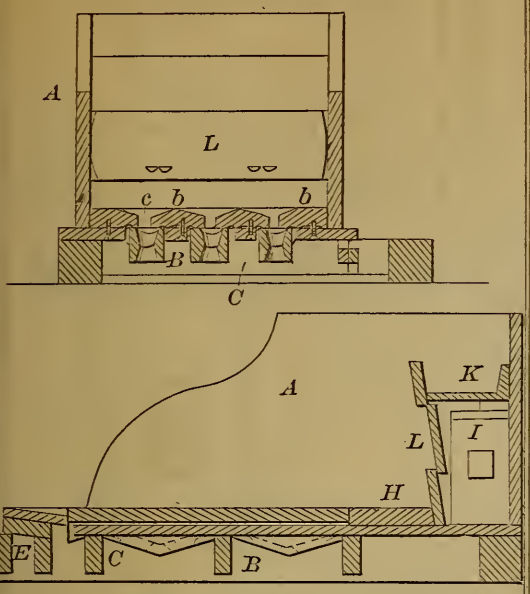
82836—Hobart & Lampman—*Fastening Horse Collars.*



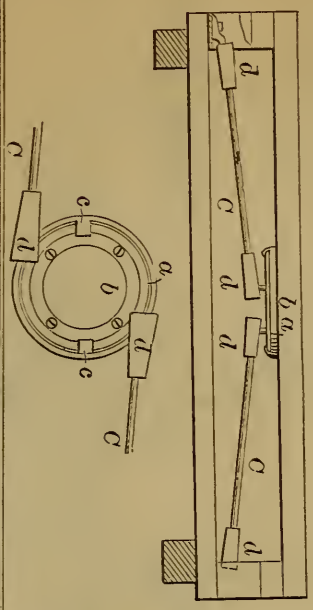
82837—A. & A. C. Hossert—*Tile Machine.*



82838—A. Hosmer—*Horse Stall.*

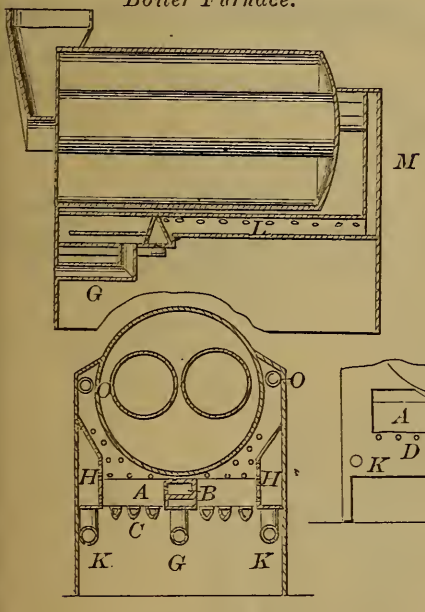


82839—J. Howe—*Carriage Brace.*

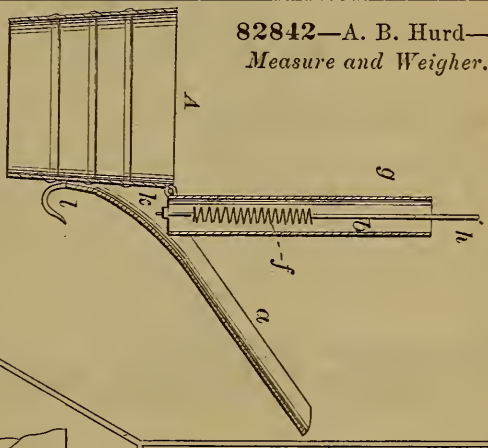


82840—L. Hull—*Whip Handle.*

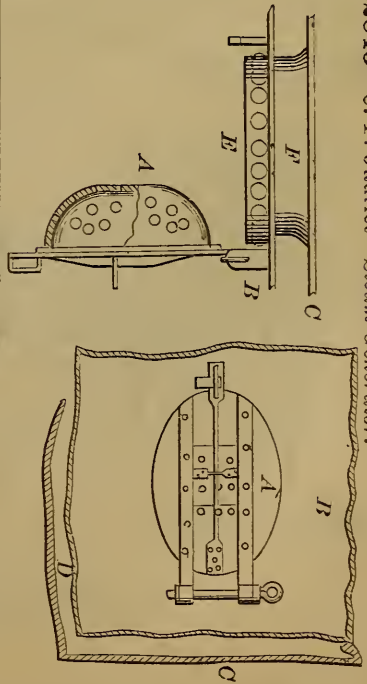
82841—H. H. Huntley—*Steam Boiler Furnace.*



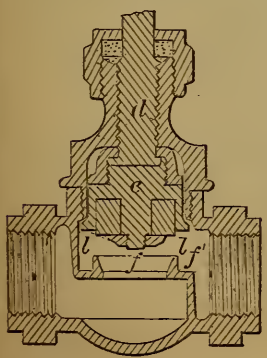
82842—A. B. Hurd—*Measure and Weigher.*



82843—C. F. Jauriet—*Steam Generator.*

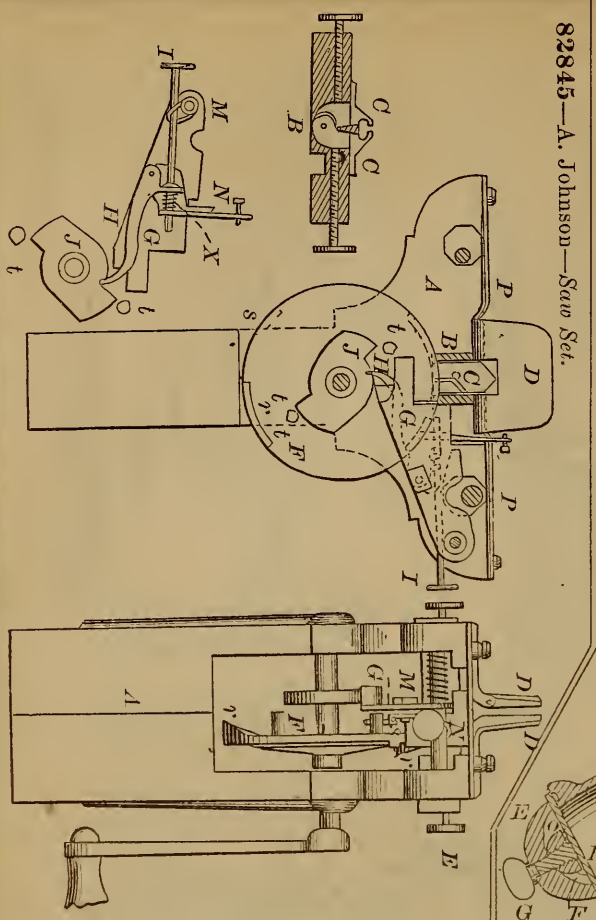


82844—N. Jenkins—*Steam Globe Valve.*

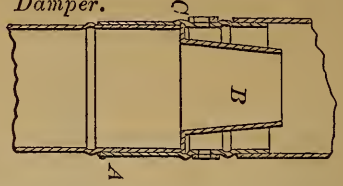


82847—H. H. Kelley—*Sash Fastener.*

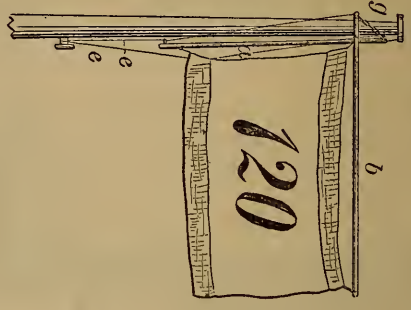
82845—A. Johnson—*Saw Set.*



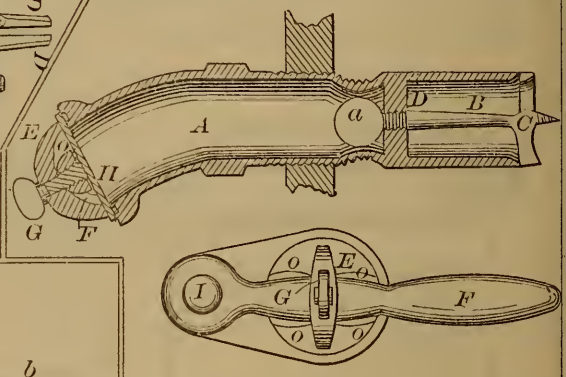
82848—J. C. Kennedy—*Stove Pipe Damper.*



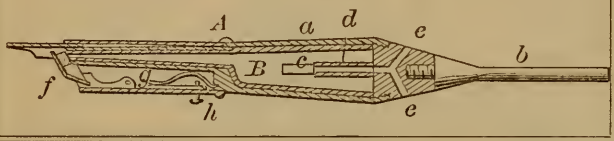
82849—J. F. H. King—*Signal Flag for Vessels.*



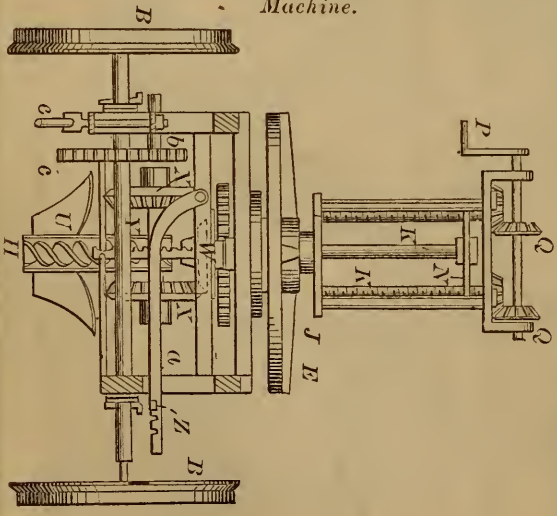
82851—Lawrence & Johnson—*Faucet.*

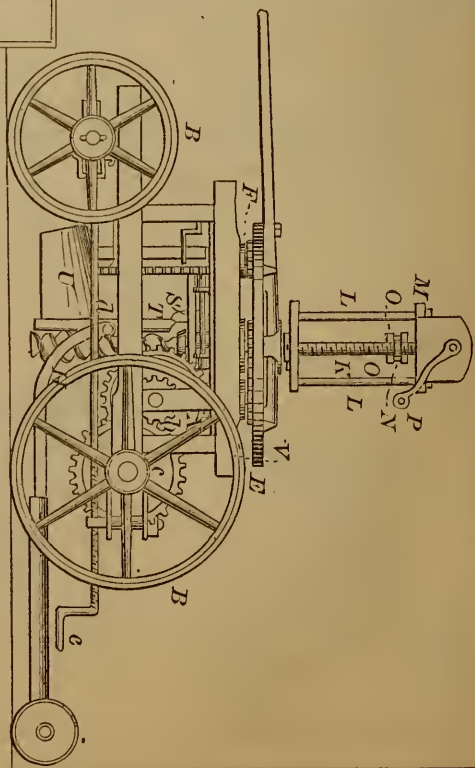


82850—G. Kneipe—*Fountain Pen.*

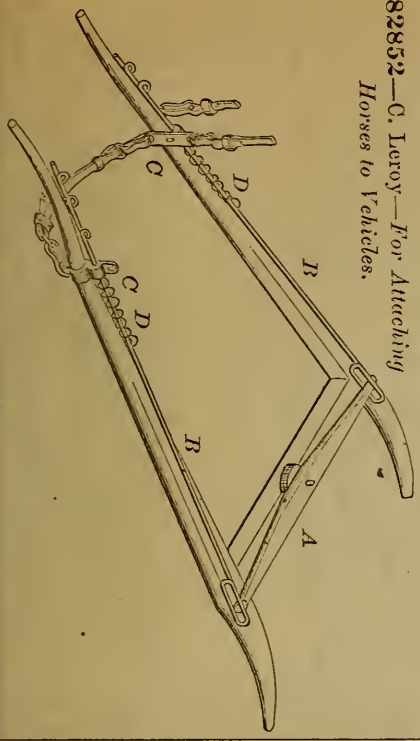


82846—I. B. Jones—*Ditching and Boring Machine.*

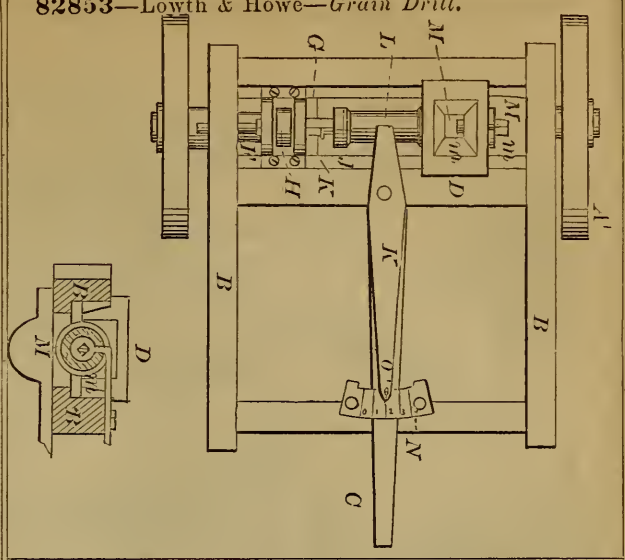




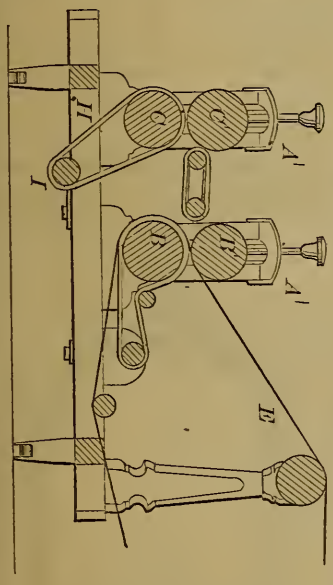
82852—C. Leroy—*For Attaching Horses to Vehicles.*



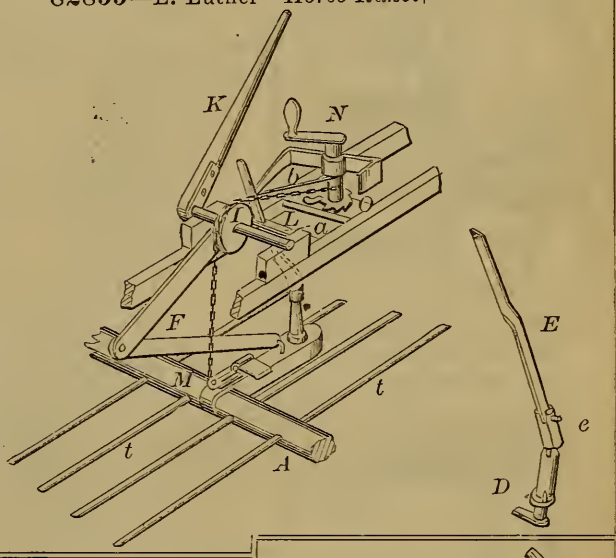
82853—Lowth & Howe—*Grain Drill.*



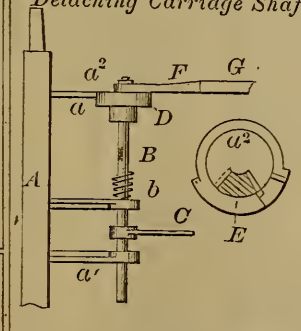
82854—A. B. Lovell—*Paper Machines.*



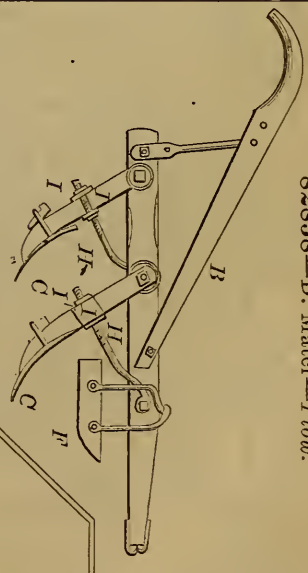
82855—E. Luther—*Horse Rake.*



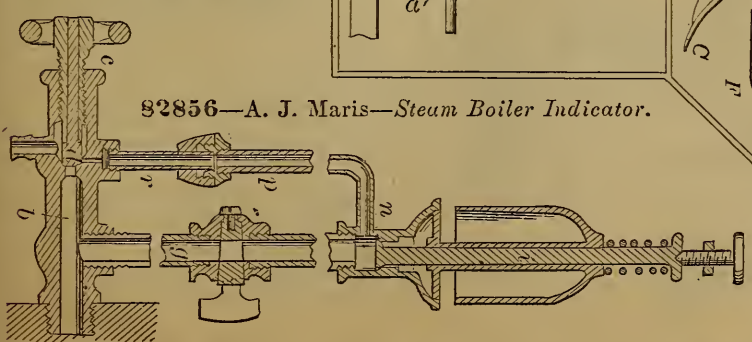
82857—Marmaduke & Bruce—*Attaching and Detaching Carriage Shafts.*



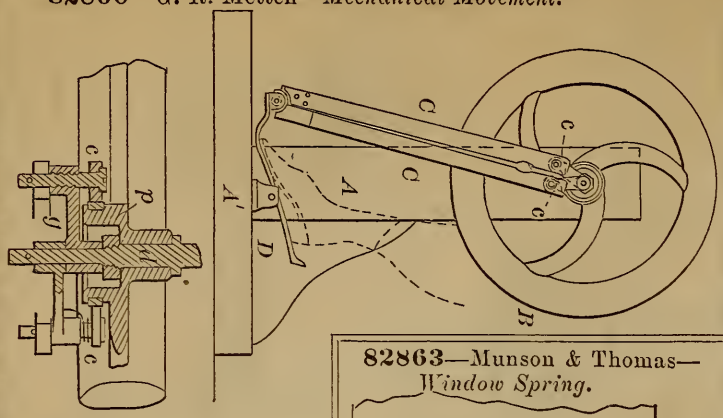
82858—D. Mater—*Plow.*



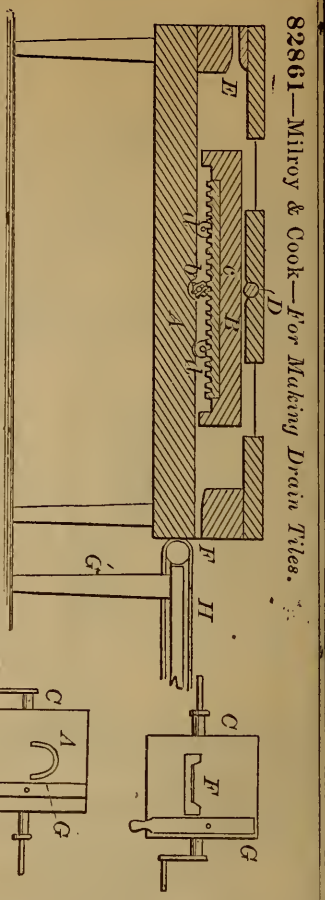
82856—A. J. Maris—*Steam Boiler Indicator.*



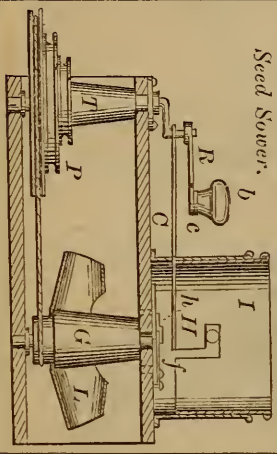
82860—G. R. Metten—*Mechanical Movement.*



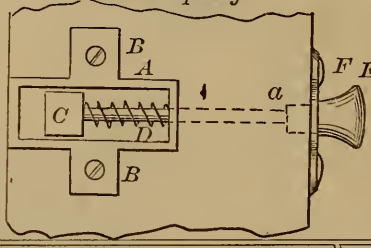
82861—Milroy & Cook—*For Making Drain Tiles.*



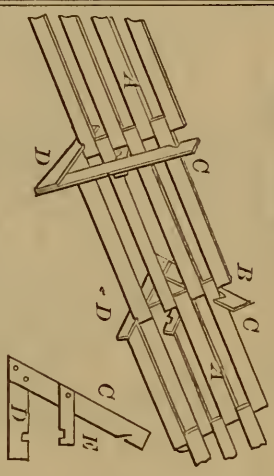
82862—W. H. & J. F. Mitchell—*Seed Sower.*



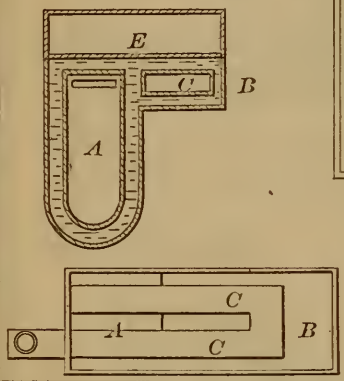
82863—Munson & Thomas—*Window Spring.*



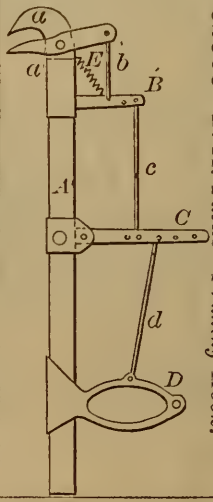
82865—A. M. Olds—*Fence.*



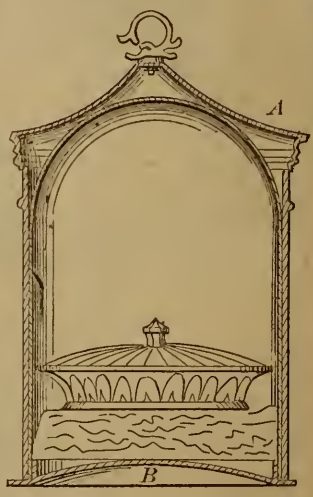
82866—Otis & Barber—*For Treating Milk.*



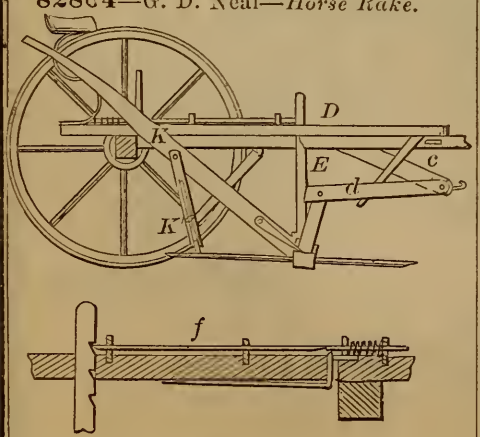
82868—B. M. Parks—*Pruning Hook.*



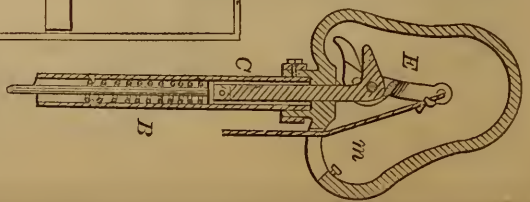
82869—J. W. D. Patten—*Ice Preserver.*



82864—G. D. Neal—*Horse Rake.*

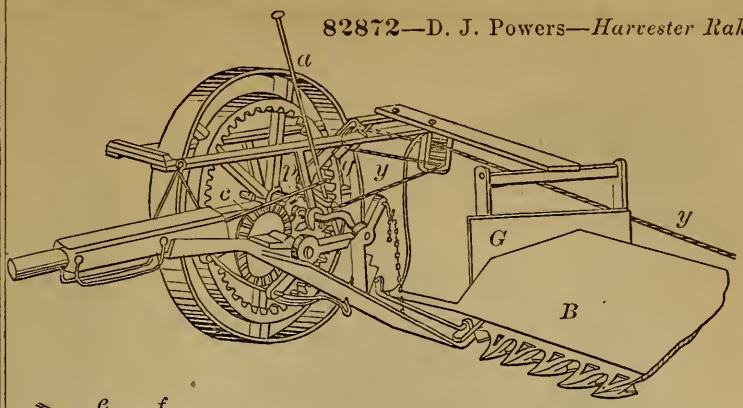


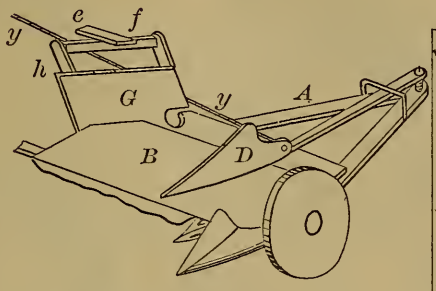
82867—O. Paddock—*Horse Hay Fork.*



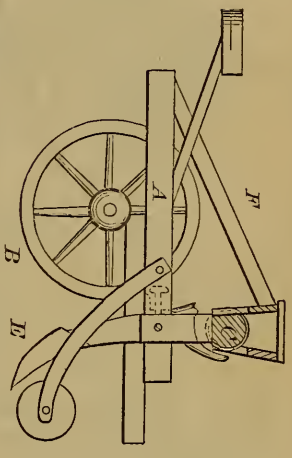
82870—B. F. Perkins—*Globe Valve.*

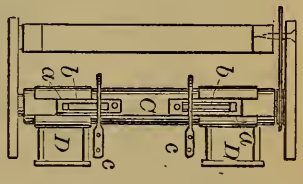
82872—D. J. Powers—*Harvester Rake.*



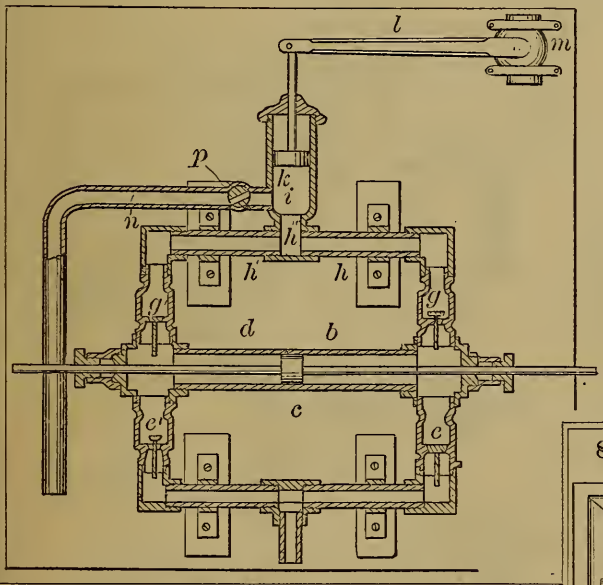


82875—S. B. Reeder—*Corn Planter.*

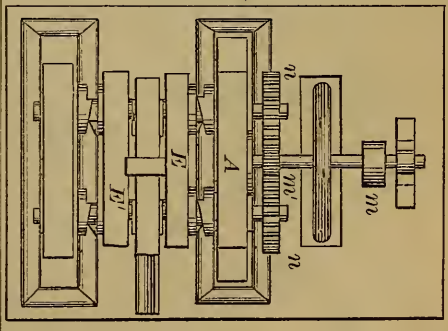


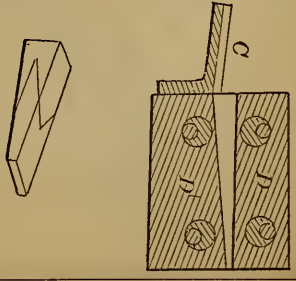


82874—J. H. & C. E. Randall—*Steam Engine Governor.*

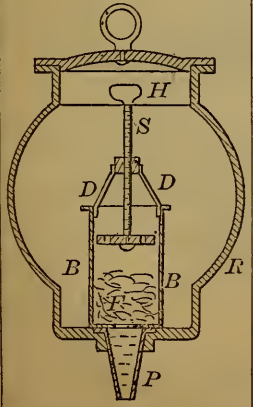


82876—J. Reese—*For Working Iron.*

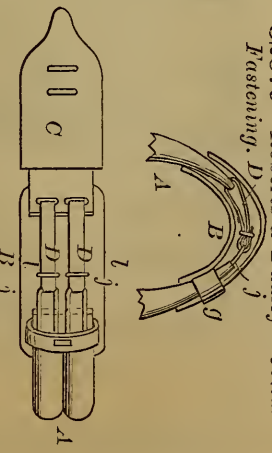




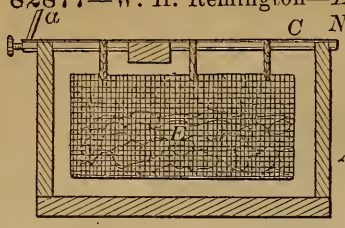
82878—
D. M. Reynolds—
Lubricator.

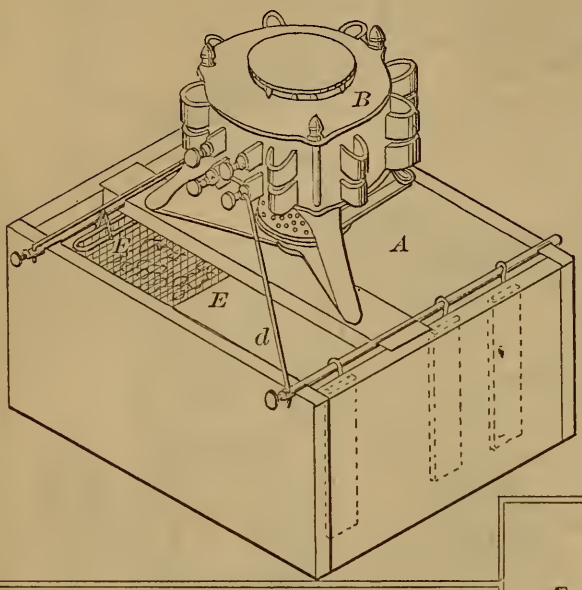


82879—Roberts & Dudley—*Collar Fastening.*

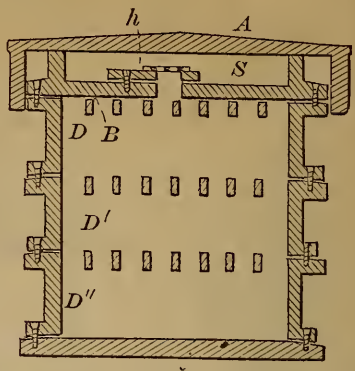


82877—W. H. Remington—*Electroplating with Nickel.*

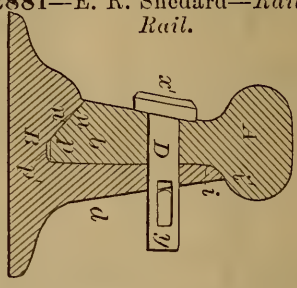




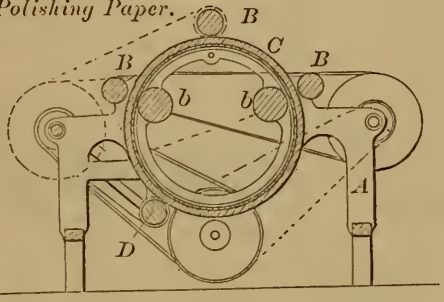
82880—G. C. Schneider—*Beehive.*



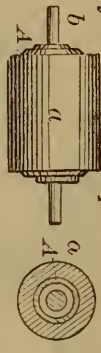
82881—E. R. Shedard—*Railroad Rail.*

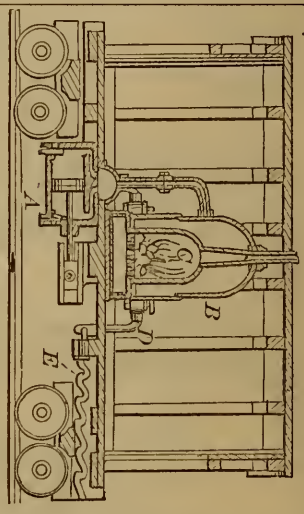


82882—Shepherd & George—*For Polishing Paper.*

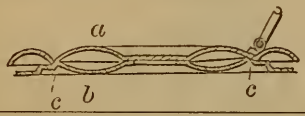


82883—Shepherd & George—*Burnisher for Enameled Paper.*

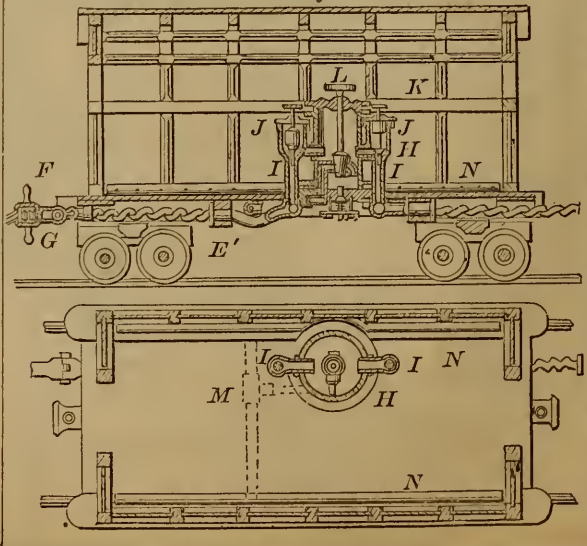




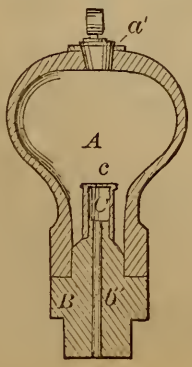
82884—J. Siddons—*Fruit Jar Cover.*



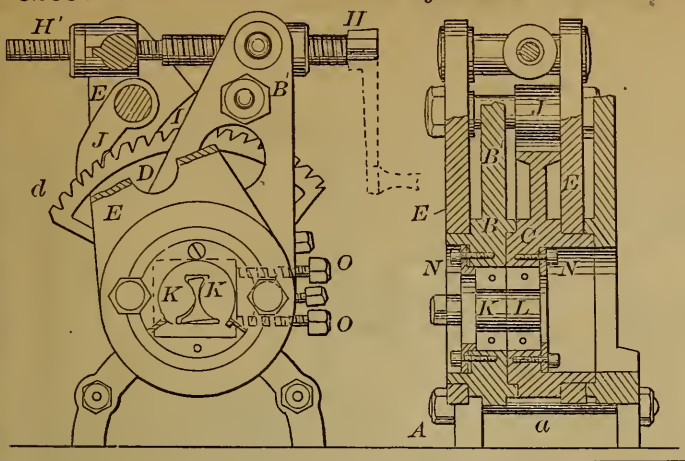
82885—Smith & Reilley—*Car Heater.*



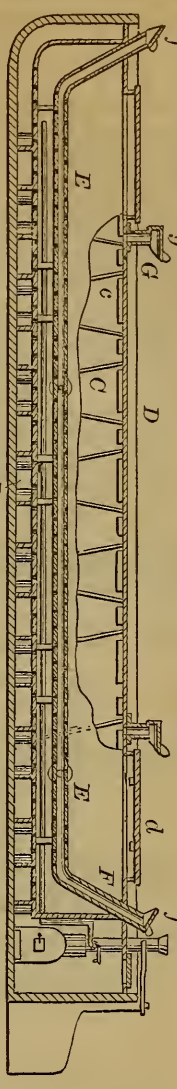
82888—H. Stanley—*Oil Cup.*



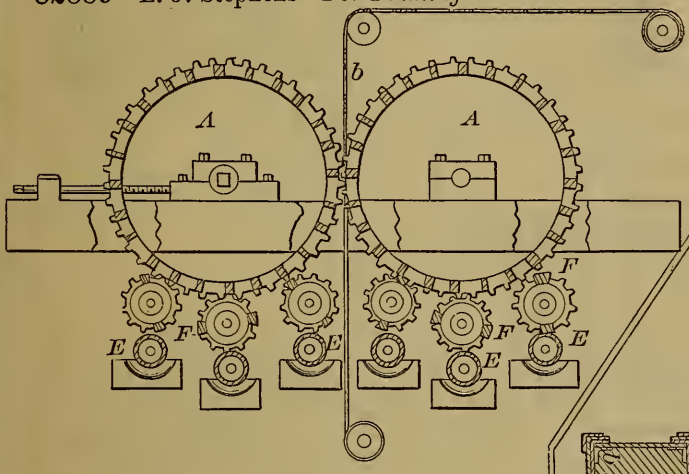
82886—Snell & Tucker—*For Cutting Metallic Bars.*



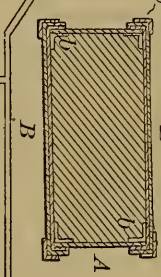
82887—D. E. Somes—*Vessel for Transportation of Grain.*

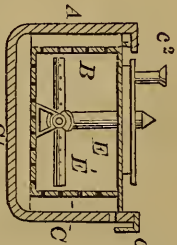


82889—E. J. Stephens—*For Printing Yarn.*

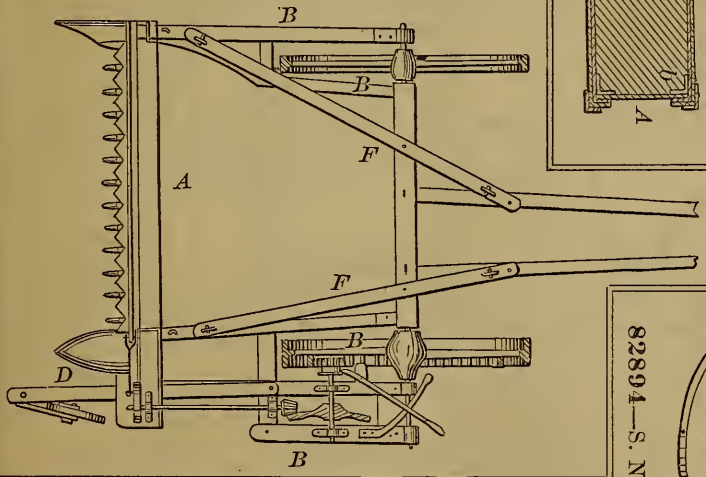


82895—Utley, Kimball & Reynolds—*Boxing and Preparing Cheese.*

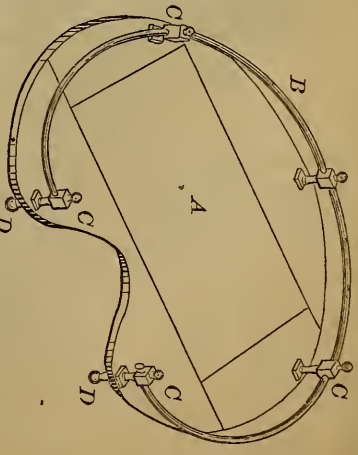




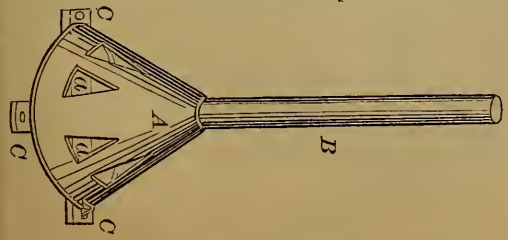
82890—L. B. Stilson—*Harvester.*



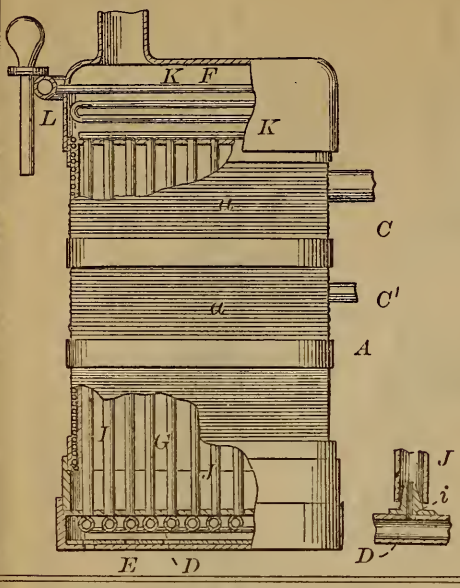
82894—S. N. Trump—*Tea Tray.*



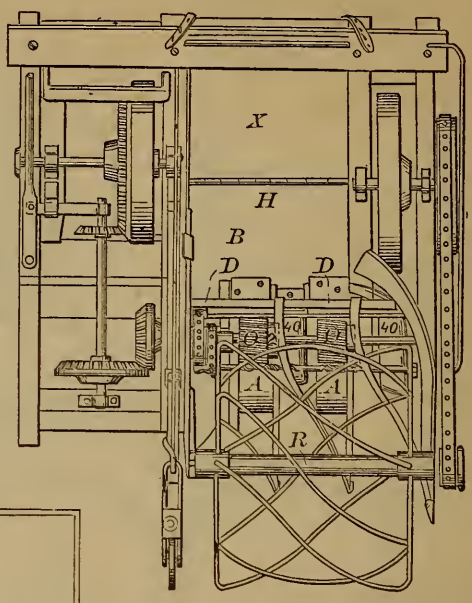
82892—M. H. Thomas—*Churn Dasher.*



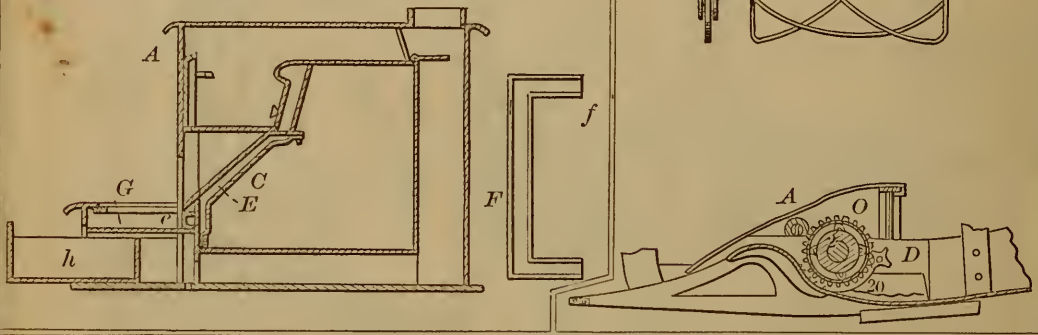
82893—C. F. Trill—*Steam Generator.*



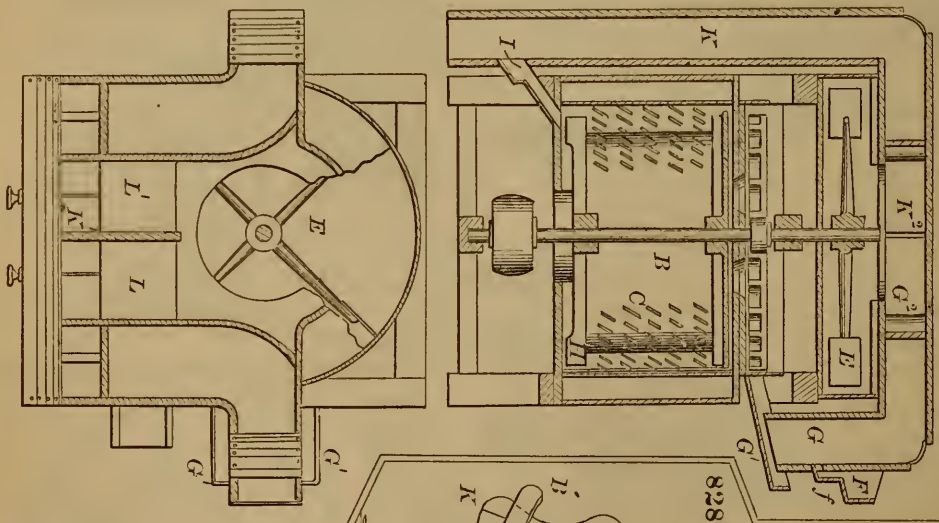
82896—M. Vanderpool—*Grain Harvester.*



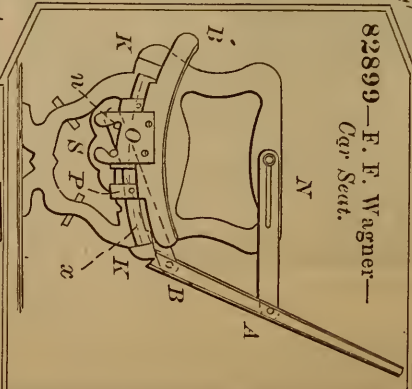
82897—N. S. Vedder—*Cooking Stove.*



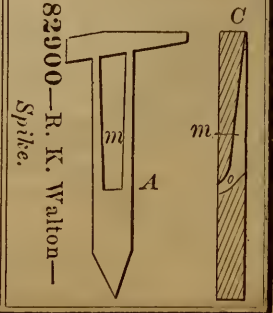
82898—J. C. Waggoner—*Smut Mill.*



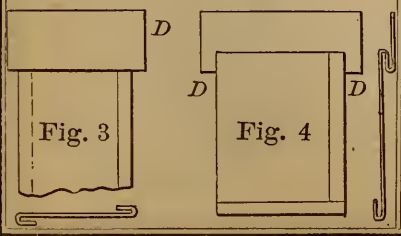
82899—F. F. Wagner—*Car Seat.*



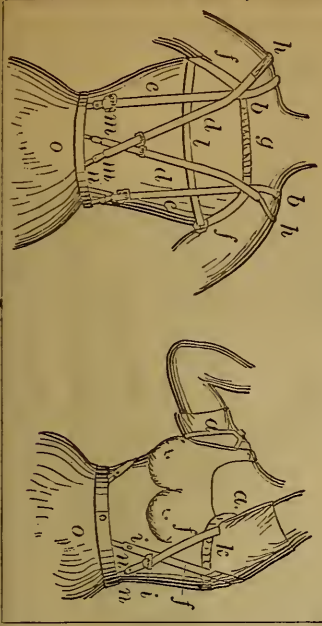
82900—R. K. Walton—*Spike.*



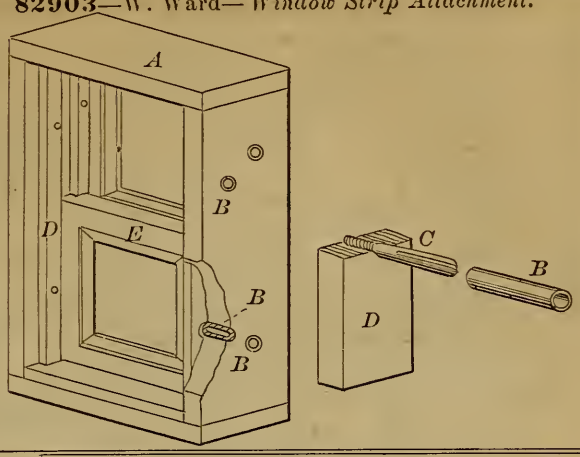
82902—W. Ward—*Metallic Roofing.*



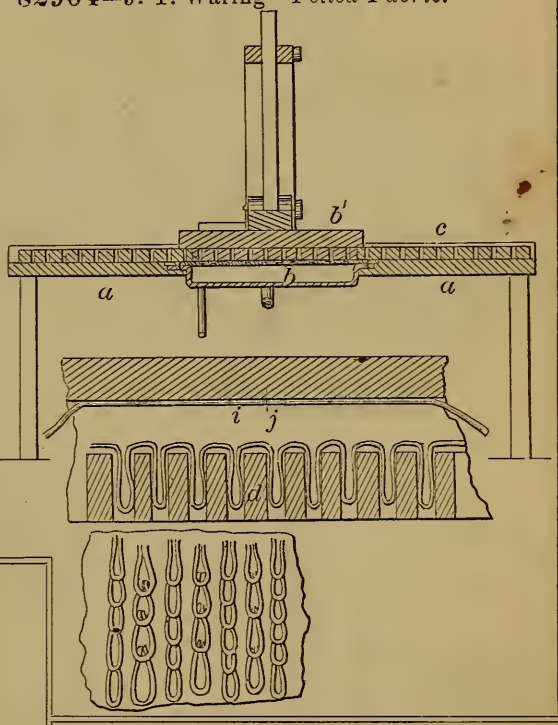
82901—Mrs. R. A. N. A. Ward—*Brace and Skirt Supporter.*



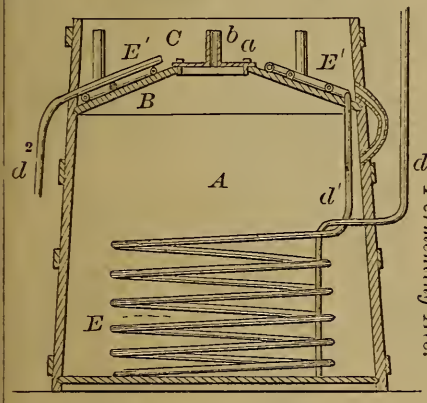
82903—W. Ward—*Window Strip Attachment.*



82904—J. T. Waring—*Felted Fabric.*



82905—E. K. Warren—*Tank for Fermenting Ale.*



82906—F. M. Weller—*Trace Fastener.*

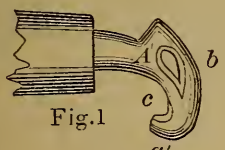


Fig.1

Fig.3

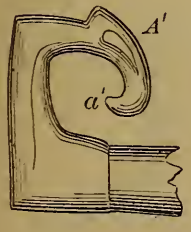
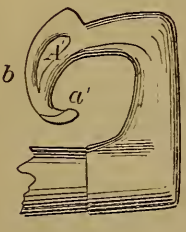
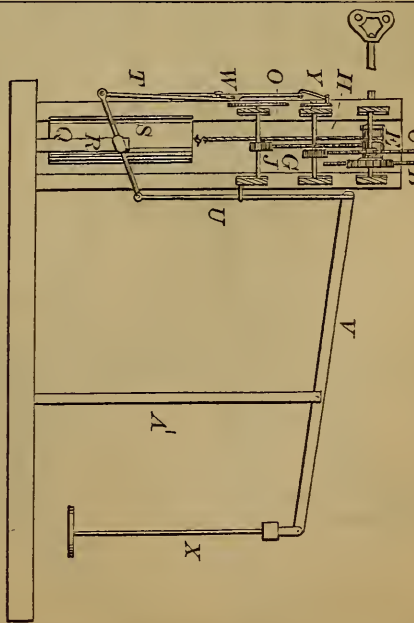


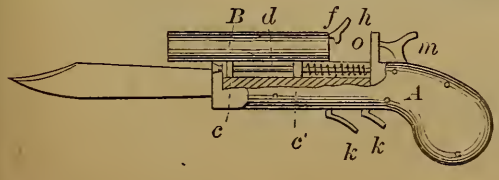
Fig.4



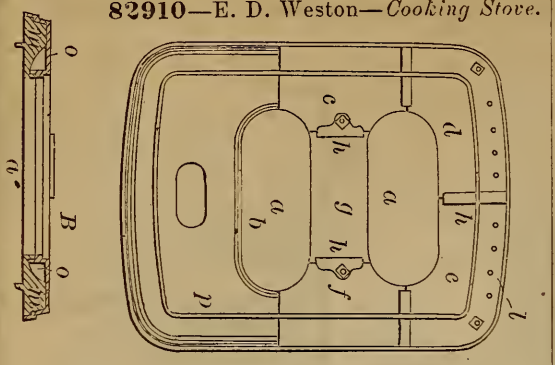
82907—C. C. Welsh—*Converting Motion.*



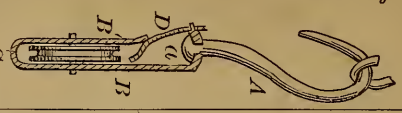
82908—D. Werner—*Breech-Loading Pistol.*



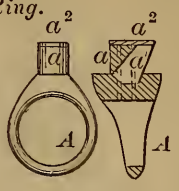
82910—E. D. Weston—*Cooking Stove.*



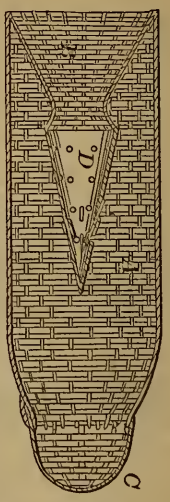
82911—R. White—*Clothes Line Adjuster.*



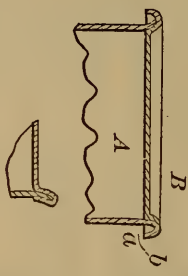
82912—Wilmarth & Fobes—*Knife Ring.*



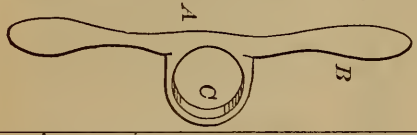
82913—G. D. Allen—*Eel Pot.*



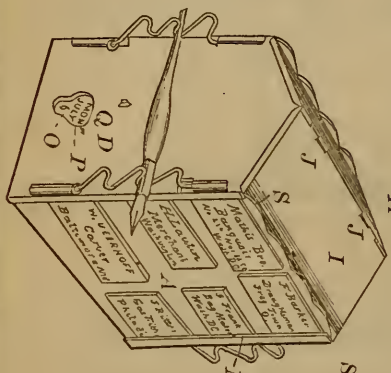
82914—C. Barry—*Alkali Can.*

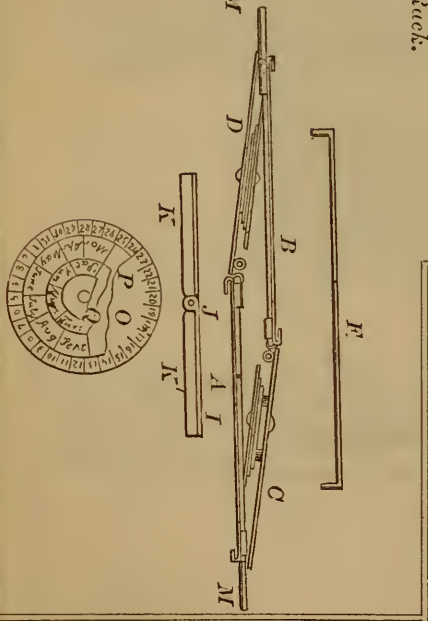


82915—E. Blair—*Corn Husking Pin.*

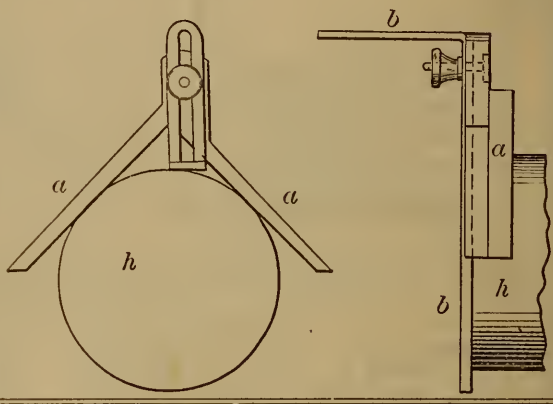


82916—C. J. Bouché—*Pen Rack.*

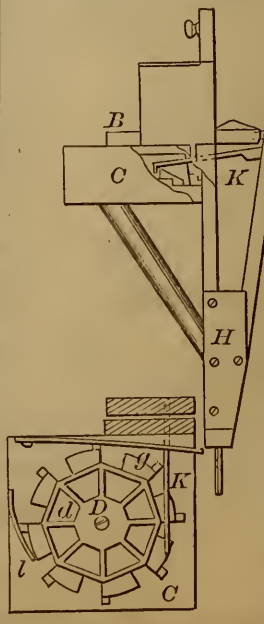




82917—G. W. Brooks—*Centering Square.*

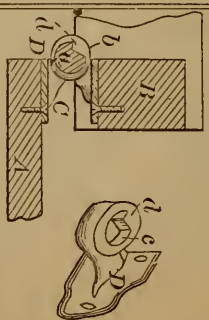


82918—J. A. Burchard—*Corn Planter.*

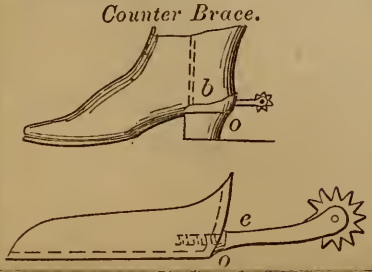


82919—T. A. Cambensy—*Hollow Window Crossbar of Sheet Iron.*

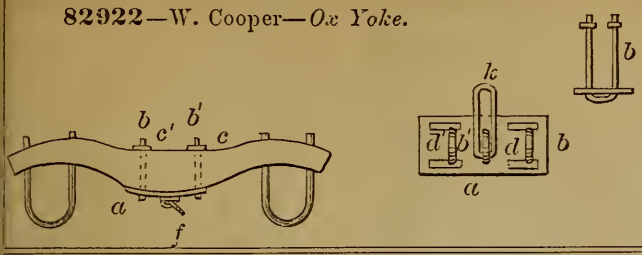
82920—C. B. Clark—*Blind Hinge.*



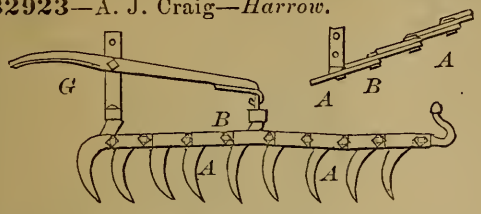
82921—J. L. Cooper—*Metallic Counter Brace.*



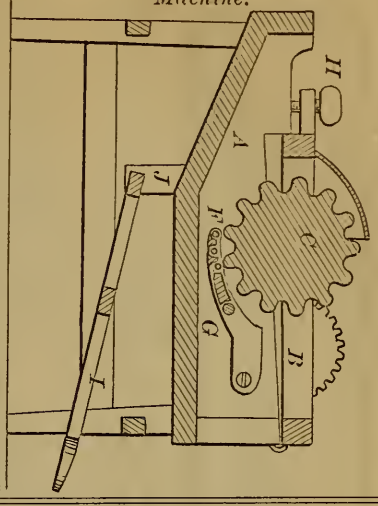
82922—W. Cooper—*Ox Yoke.*



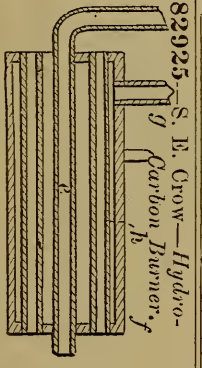
82923—A. J. Craig—*Harrow.*



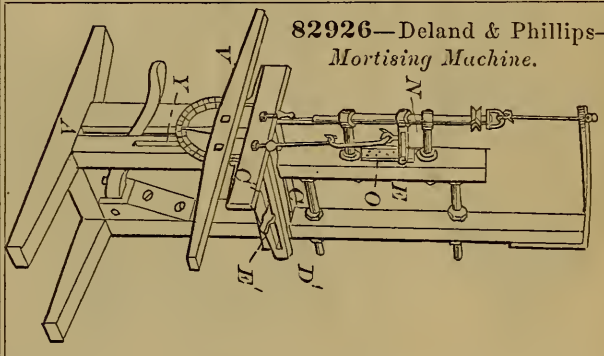
82924—C. H. Cramer—*Washing Machine.*



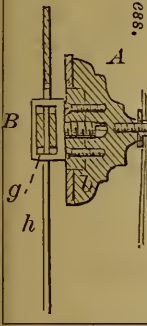
82925—S. E. Crow—*Hydro-Carbon Burner.*

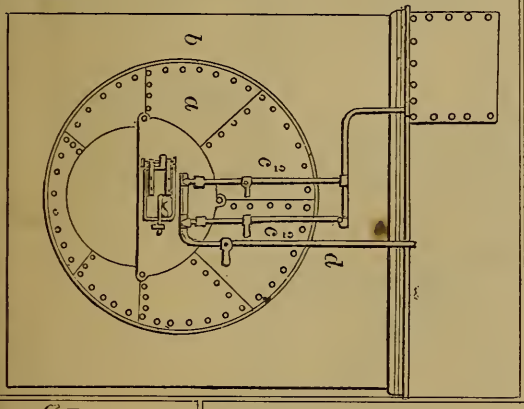


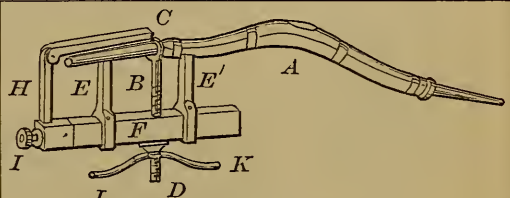
82926—Deland & Phillips—*Mortising Machine.*



82927—W. L. Denio—*Attaching Roseettes to Harness.*

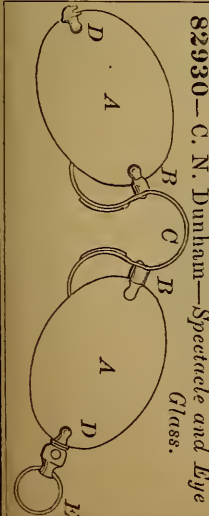




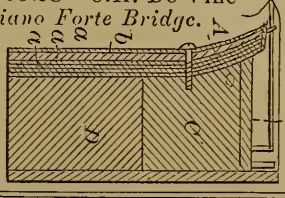


82929—D. Ducharne—*For Setting Axles to Wagons.*

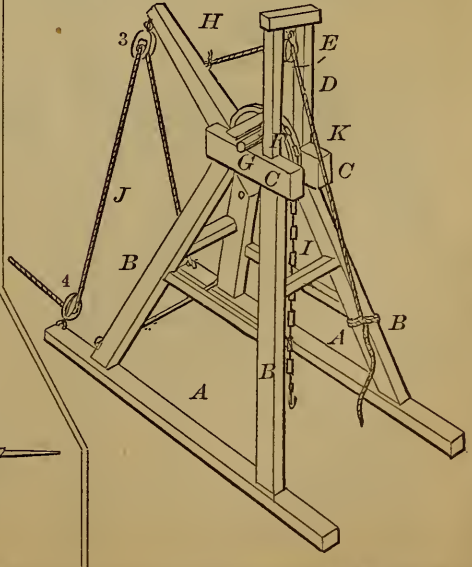
82930—C. N. Dunham—*Spectacle and Eye Glass.*



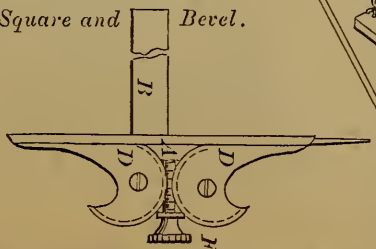
82928—C.H. De Vine—*Piano Forte Bridge.*



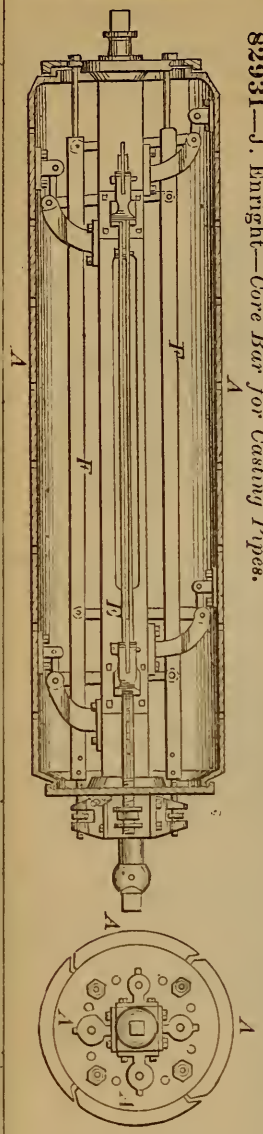
82932—R. B. Ferris—*Stump Extractor.*



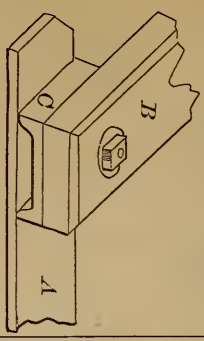
82933—Foster & Witt—*Square and Bevel.*



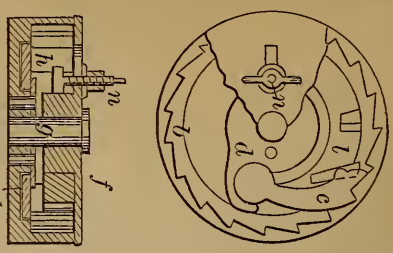
82931—J. Enright—*Core Bar for Casting Pipes.*



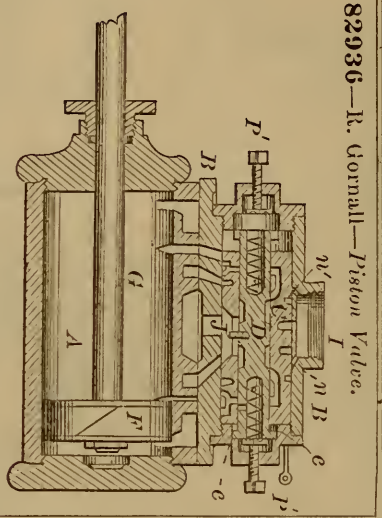
82934—A. Friberg—*Plow.*



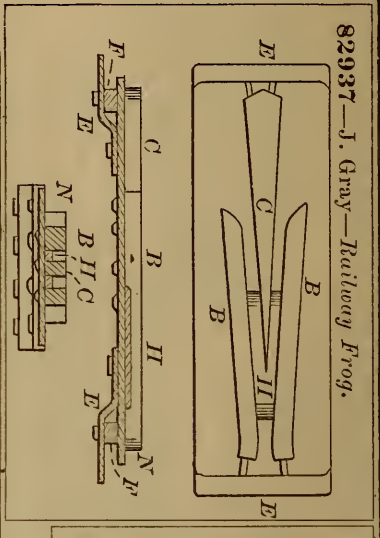
82935—J. Garfield—*Ratchet and Pawl.*



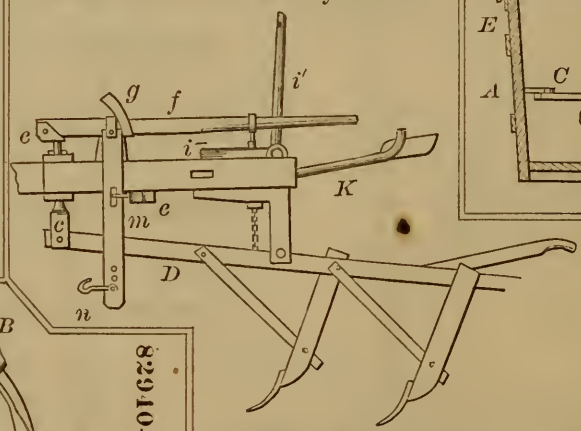
82936—R. Gornall—*Piston Valve.*



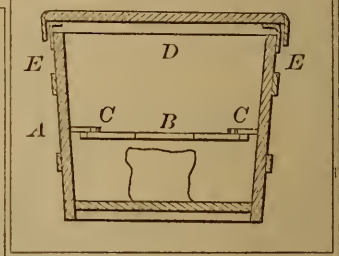
82937—J. Gray—*Railway Frog.*



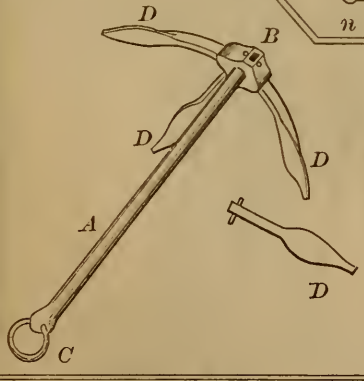
82938—B. F. & J. V. Guy—*Plow.*



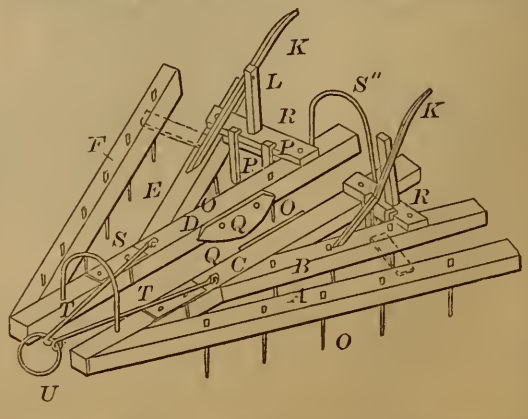
82939—E. Guyer—*Butter Tub.*



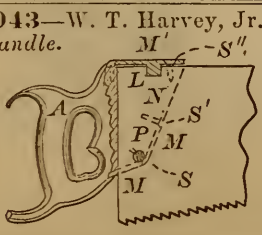
82940—J. W. Habberley—*Anchor.*



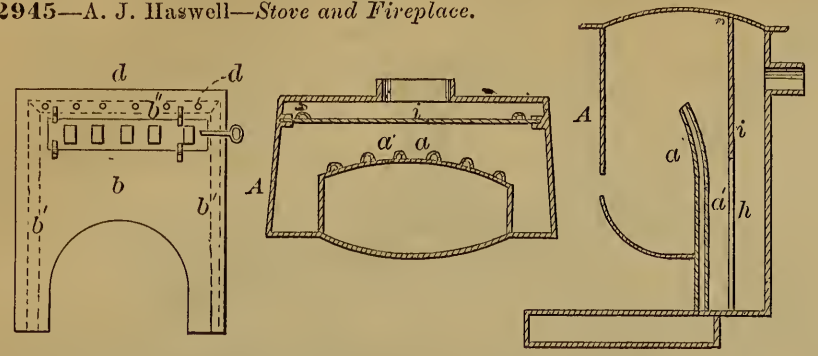
82942—D. M. Harkrader—*Harrow and Cultivator.*



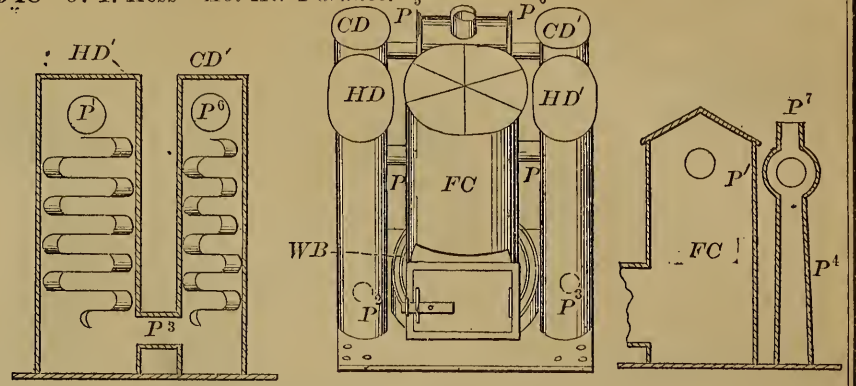
82943—W. T. Harvey, Jr.—*Saw Handle.*



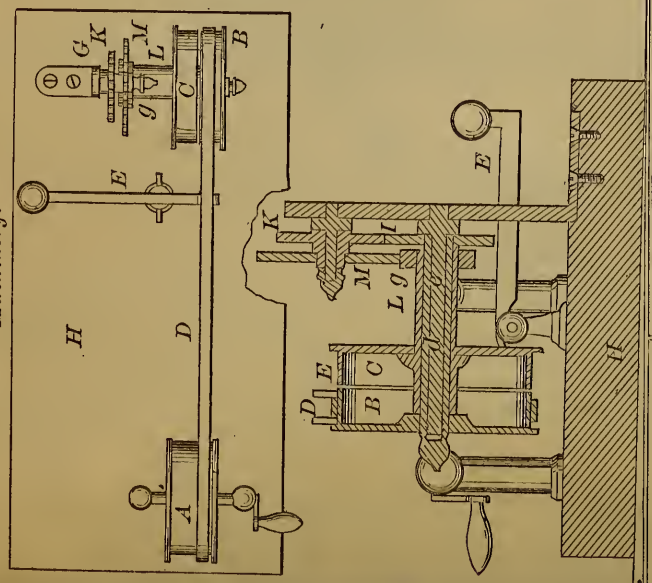
82945—A. J. Haswell—*Stove and Fireplace.*



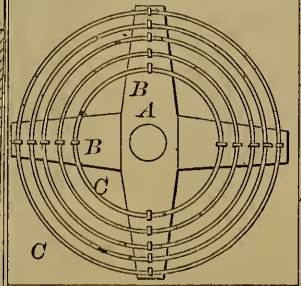
82948—J. I. Hess—*Hot Air Furnace.*

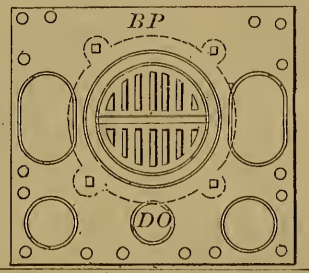


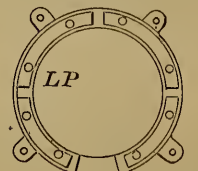
82941—T. C. Hargrave—*For Changing Speed of Machinery.*

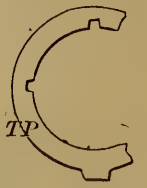


82947—Heliker & White—*Churn Dasher.*

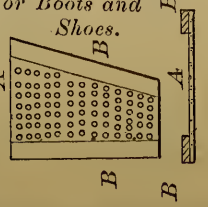




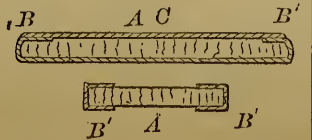




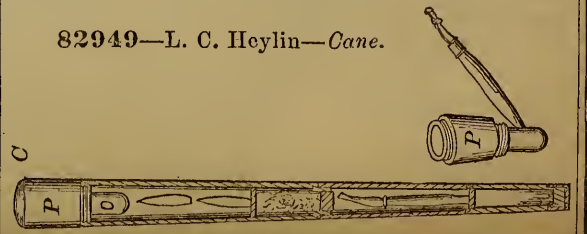
82944—J. Haskins—*For Boots and Shoes.*



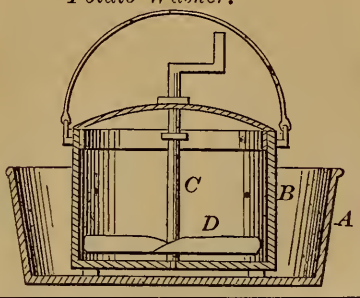
82946—C. Hay—*Boot and Shoe Bottoming.*



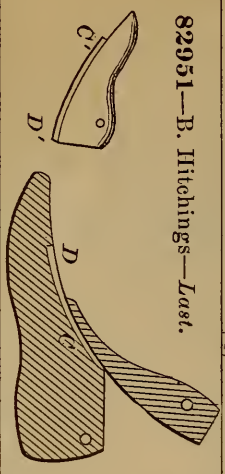
82949—L. C. Heylin—*Cane.*



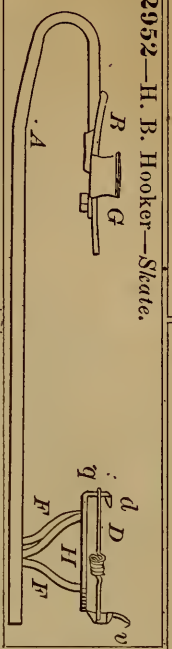
82950—D. K. Hickok—*Potato Washer.*



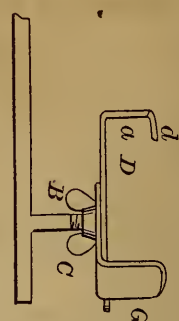
82951—B. Hitchings—*Last.*



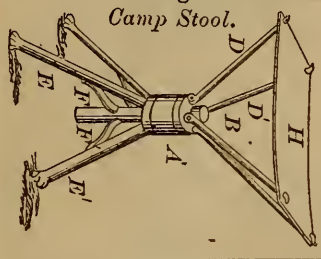
82952—H. B. Hooker—*Skate.*



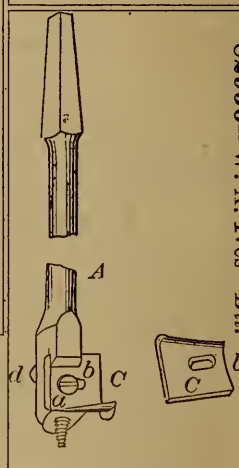
82953—H. B. Hooker—*Skate.*



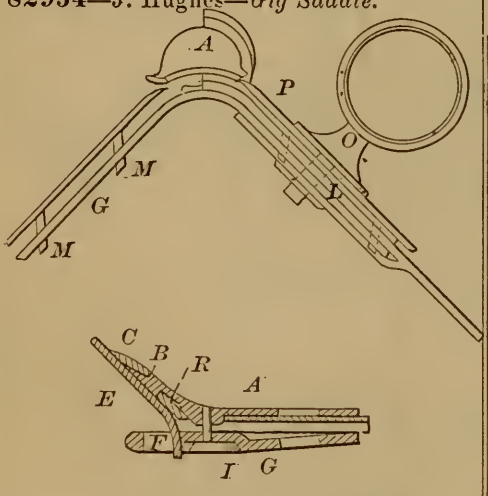
82955—J. Ingram—*Folding Camp Stool.*



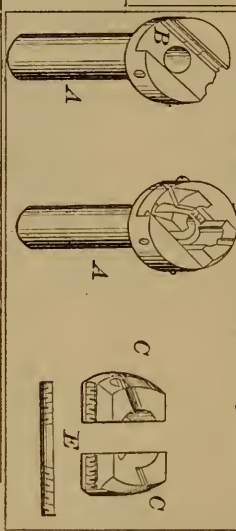
82956—W. A. Ives—*Bit.*



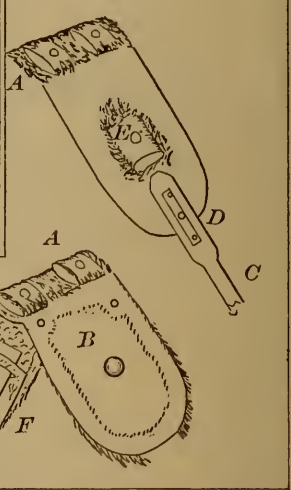
82954—J. Hughes—*Gig Saddle.*



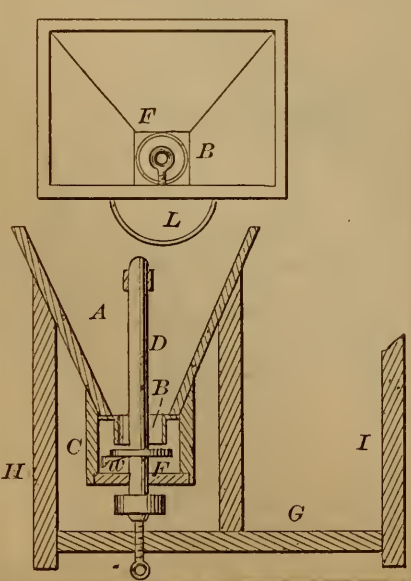
82957—W. A. Ives—*Hollow Auger.*



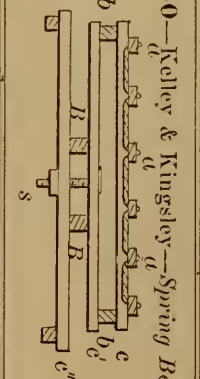
82961—J. F Knorr—*Harness Saddle Tree.*



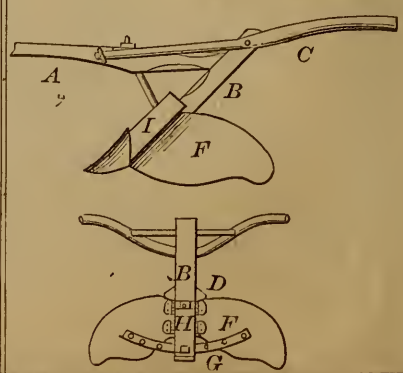
82958—D. L. Johnson—*Flour Dispenser.*



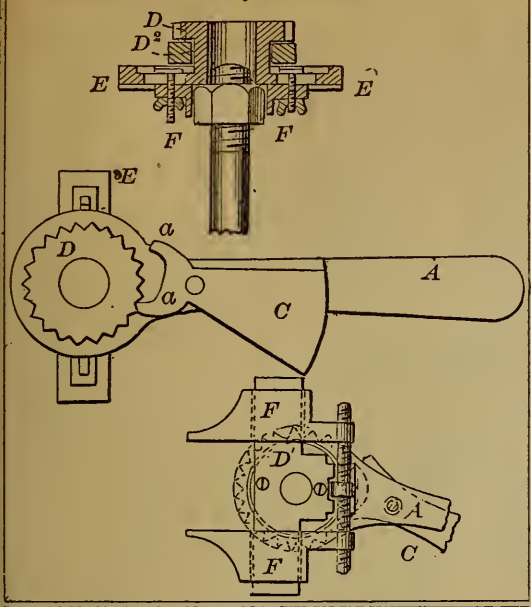
82960—Kelley & Kingsley—*Spring Bed Bottom.*



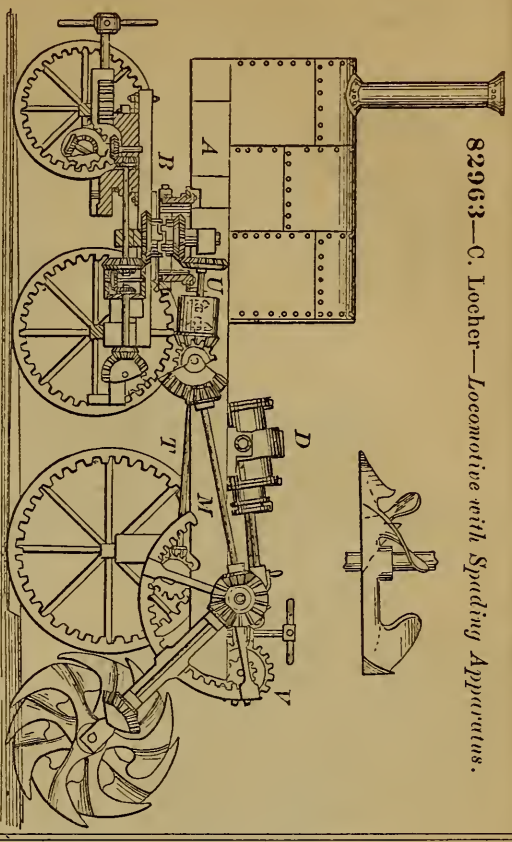
82959—G. W. Keeler—*Plow.*



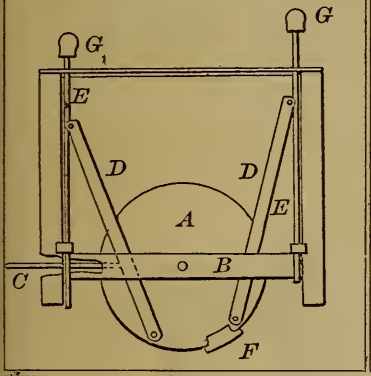
82962—E. J. Leyburn—*Wrench.*



82963—C. Locher—*Locomotive with Spading Apparatus.*

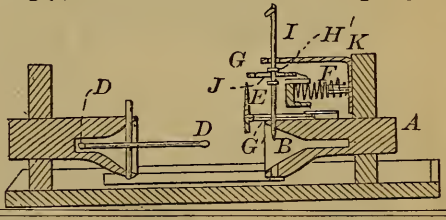


82964—J. J. P. Lyon—*Reciprocating Motion.*

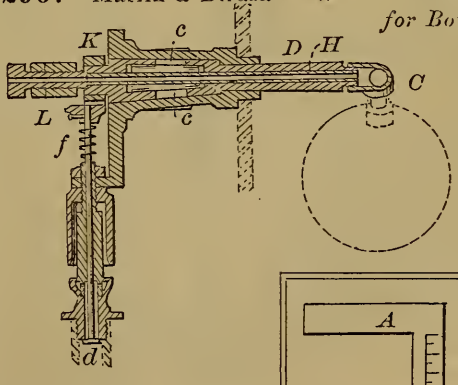


82965—W. S. Mackintosh—*Grate Bar.*

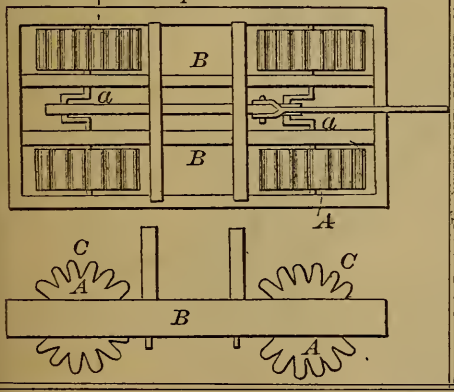
82966—S. Madden—*Car Coupling.*



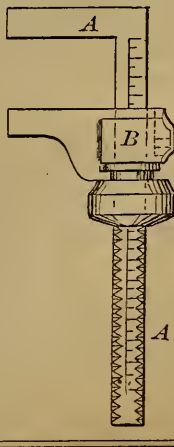
82967—Maslin & Birdsall—*Water Level Detector for Boilers.*



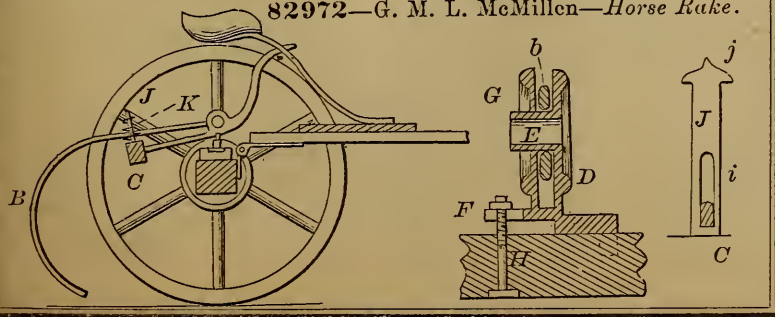
82968—E. Matteson—*Buoyant Propeller.*



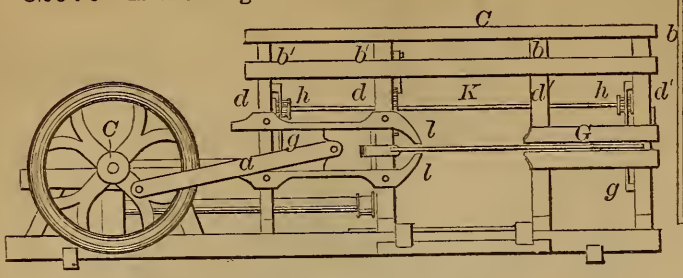
82969—La F. H. Mayott—*Gauge.*

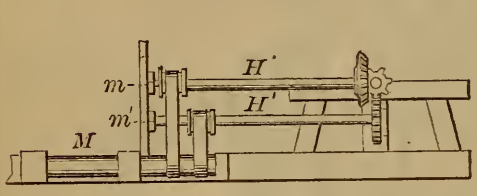


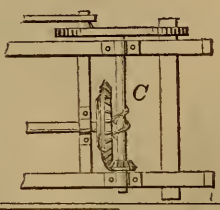
82972—G. M. L. McMillen—*Horse Rake.*



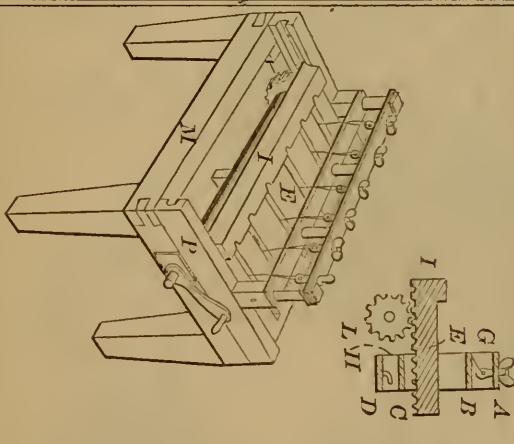
82970—A. McCreight—*Saw Mill.*



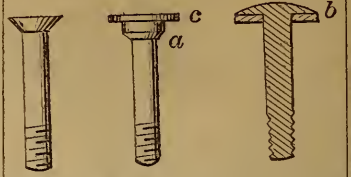




82971—P. B. McKelvey—*For Cutting Soap.*

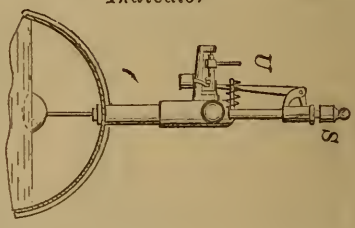


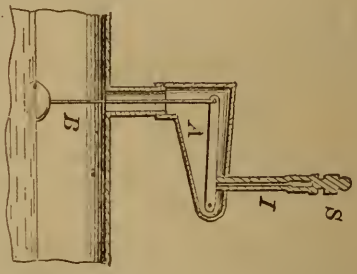
82973—F. S. Miles—*Bolt Head.*

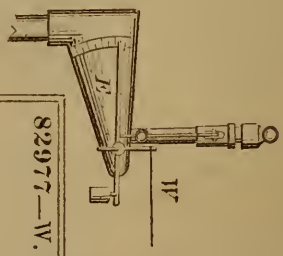


82975—A. G Morey—*Mattress.*

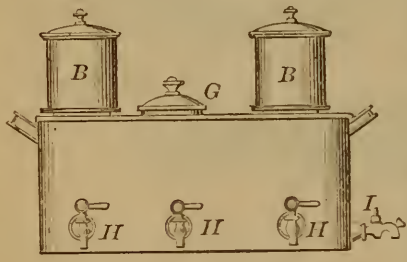
82974—W. Moore—*Low Water Indicator*

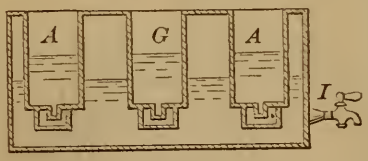


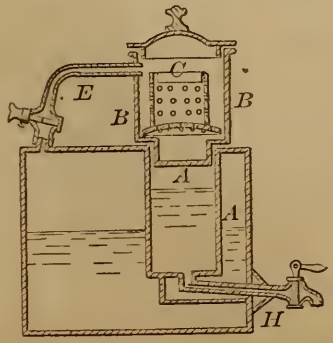




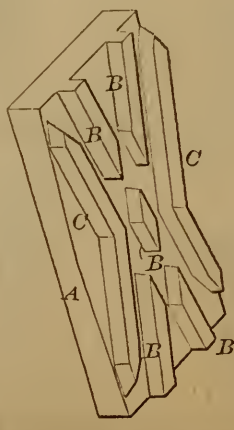
82976—C. G. Murch—*Coffee and Tea Steamer.*



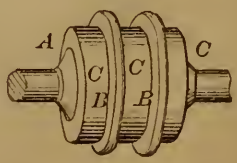




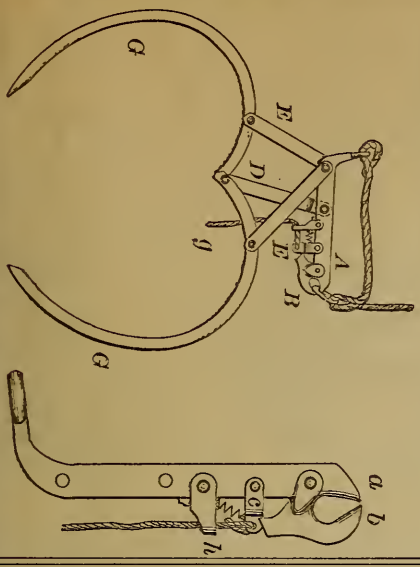
82977—W. H. Nobles—*Railway Frog.*



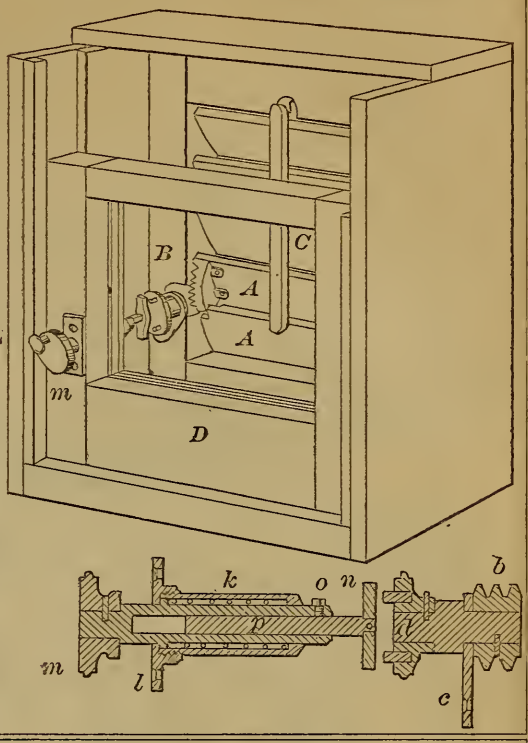
82978—W. H. Nobles—*Car Wheel.*



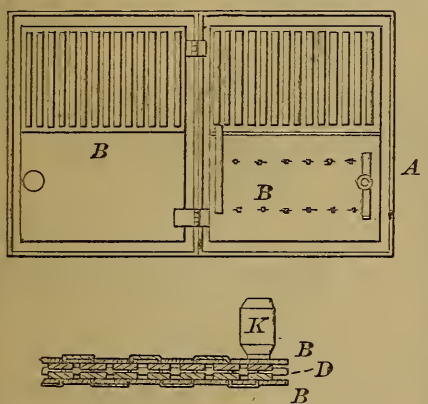
82979—J. K. O'Neil—*Horse Hay Fork.*



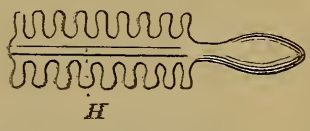
82980—O. Paddock—*Shutter Fastening.*



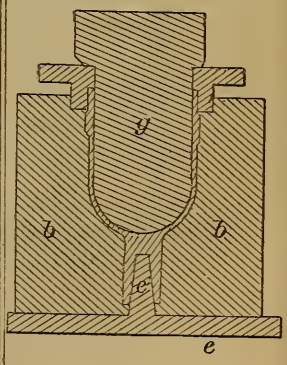
82981—H. Palmer—*Voltaic Battery.*



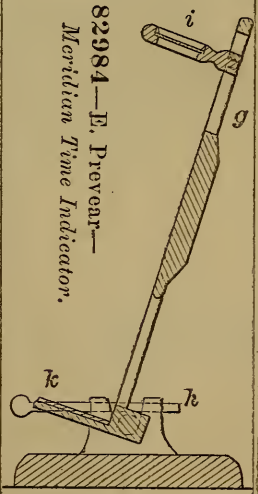
82982—W. Patton—*For Dyeing Hair.*



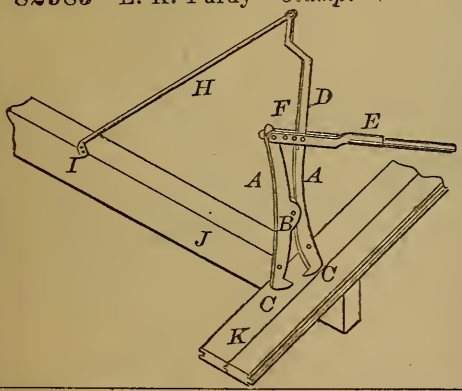
82983—J. P. Pears—*Glassware.*



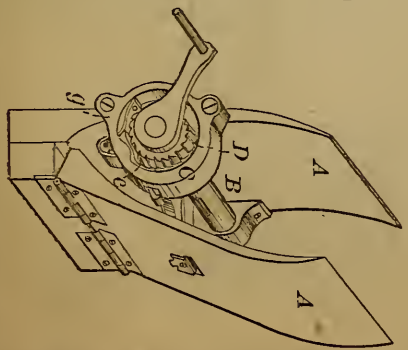
82984—E. Prevear—*Meridian Time Indicator.*



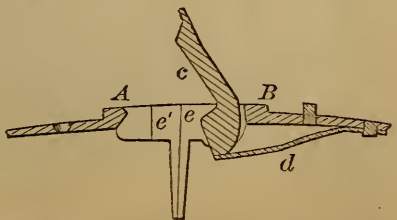
82985—E. K. Purdy—*Clamp.*



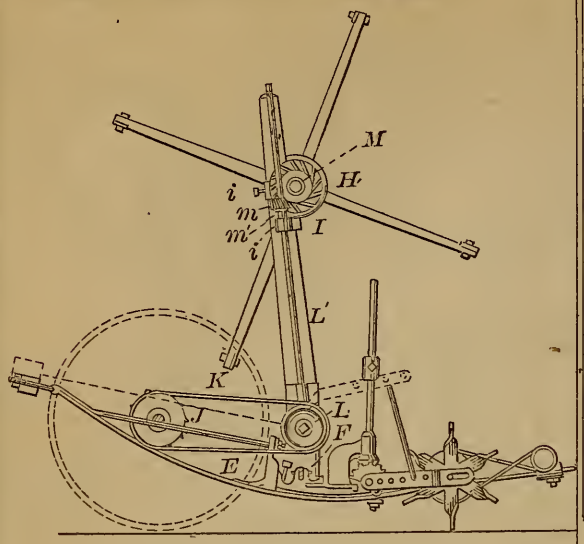
82986—W. K. Rairigh—*Clamp.*



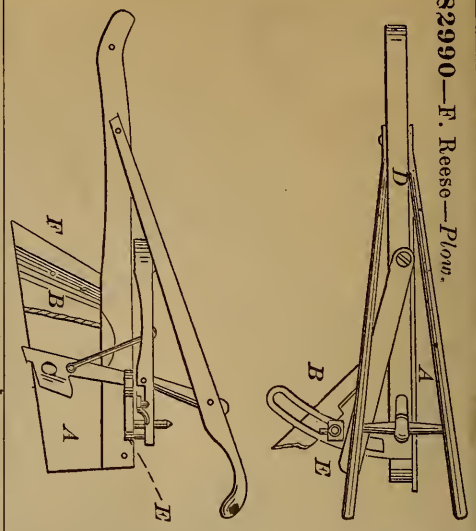
82988—L. Ranson—*Trunk Clasp.*



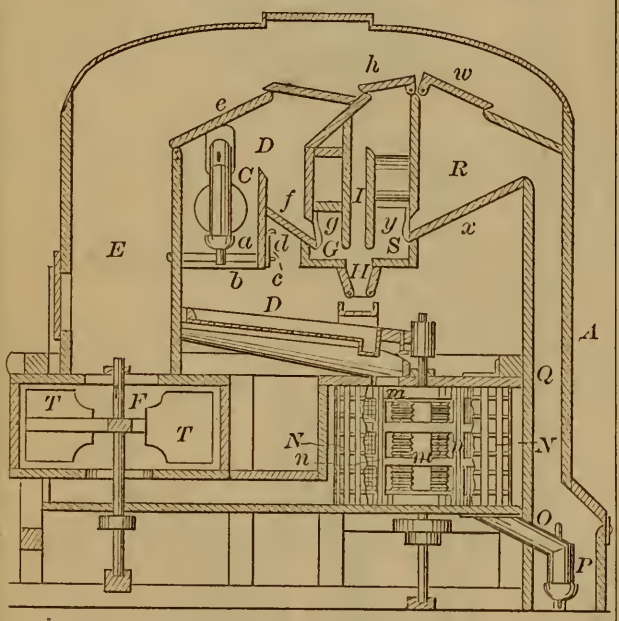
82987—Rank & Cox—*Harvester.*



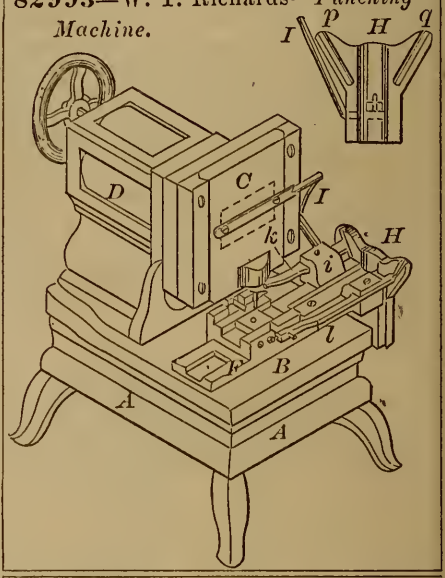
82990—F. Reese—*Plow.*



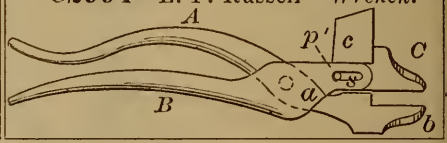
82989—P. N. & J. Recker—*Grain Separator.*



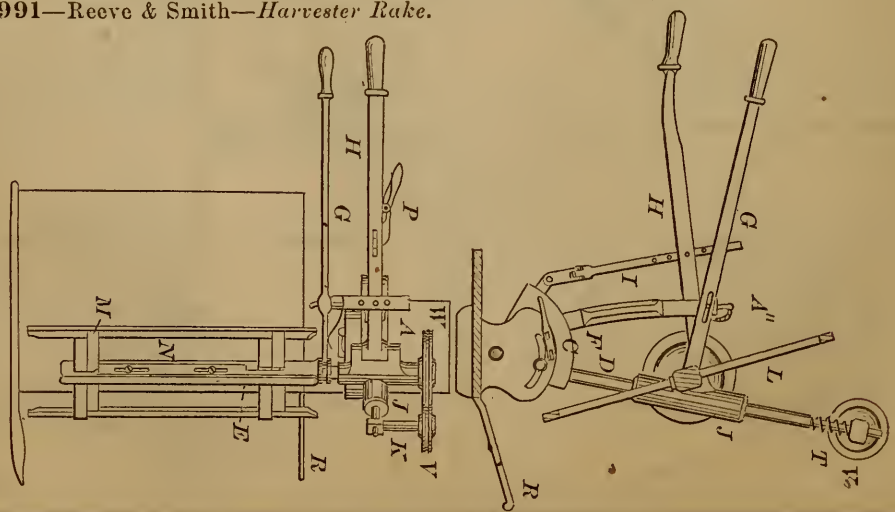
82993—W. T. Richards—*Punching Machine.*



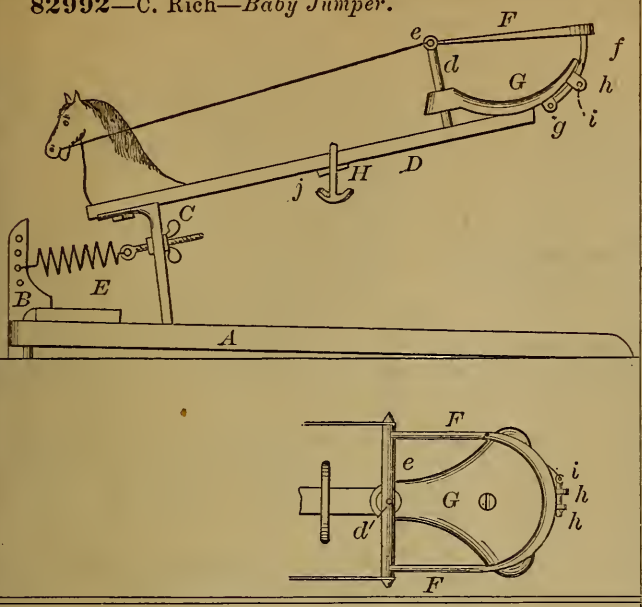
82994—E. P. Russell—*Wrench.*



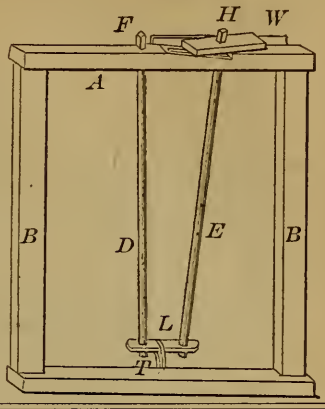
82991—Reeve & Smith—*Harvester Rake.*



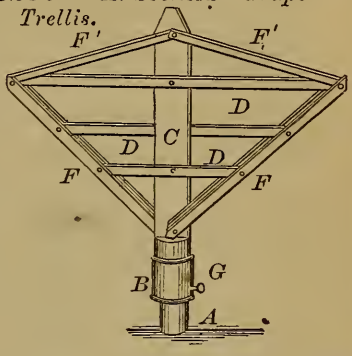
82992—C. Rich—*Baby Jumper.*



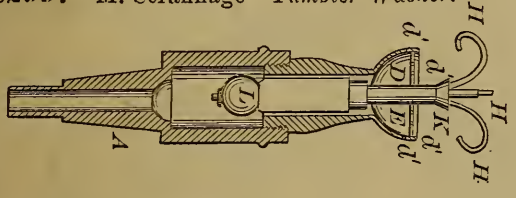
82993—L. S. Safford—*Stanchion for Fastening Cattle.*



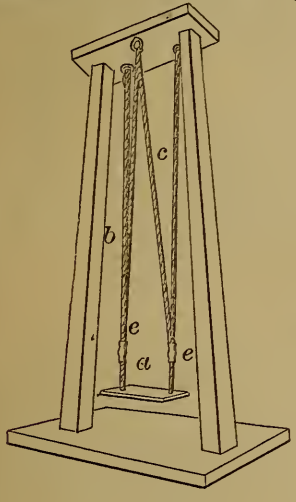
82996—A. Scofield—*Grape Trellis.*



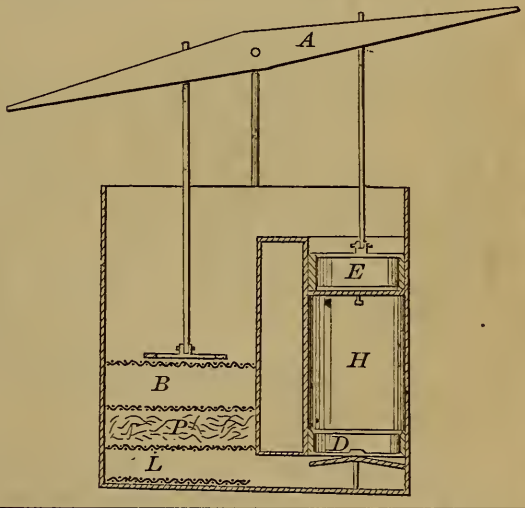
82997—M. Scrannage—*Tumbler Washer.*



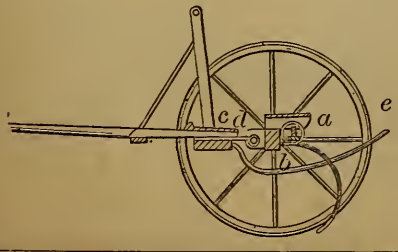
82998—G. A. Seaver—*Swing.*



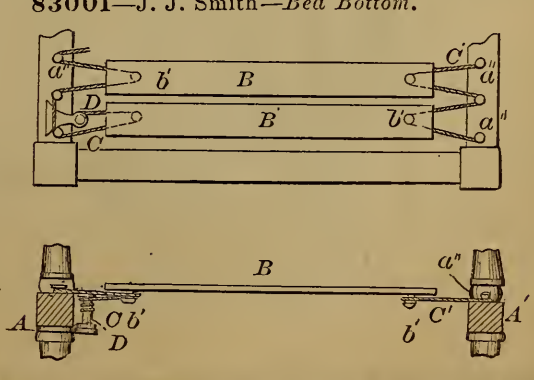
82999—N. M. Shafer—*Washing Machine.*



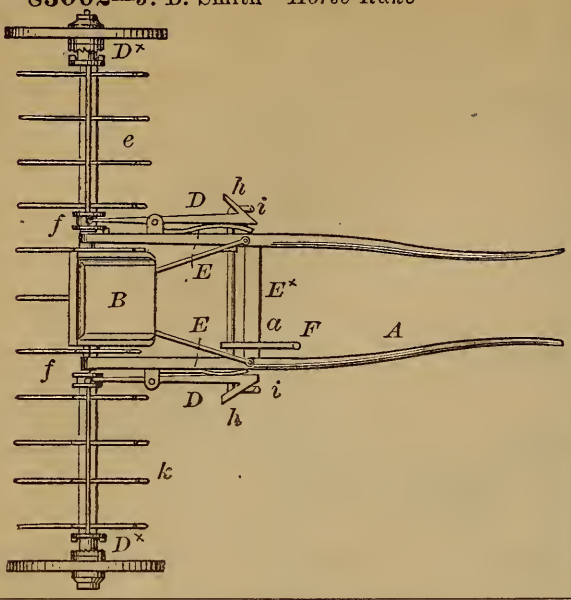
83000—Shaler & Barlow—*Horse Rake.*



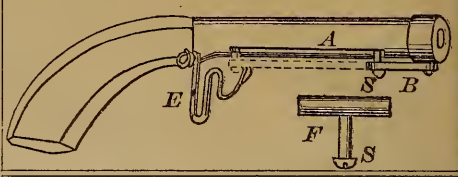
83001—J. J. Smith—*Bed Bottom.*



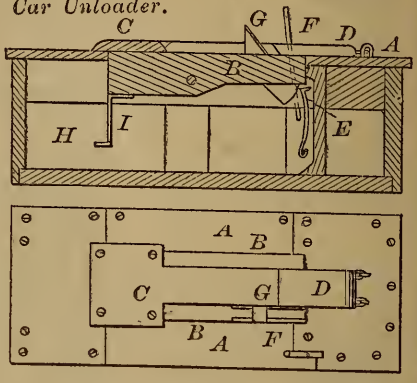
83002—J. B. Smith—*Horse Rake*



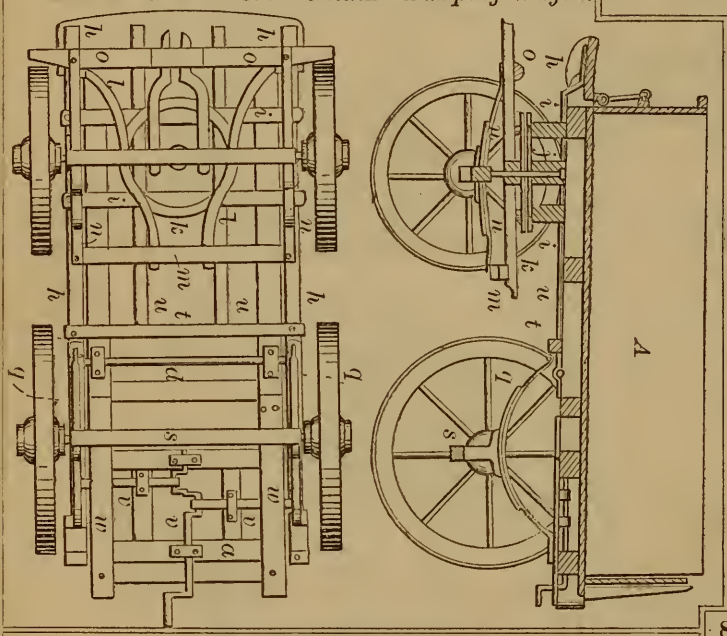
83004—G. Stackpole—*Toy Pistol.*



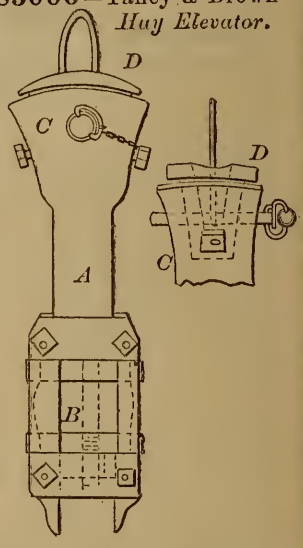
83005—N. Swickard—*Wagon and Car Unloader.*



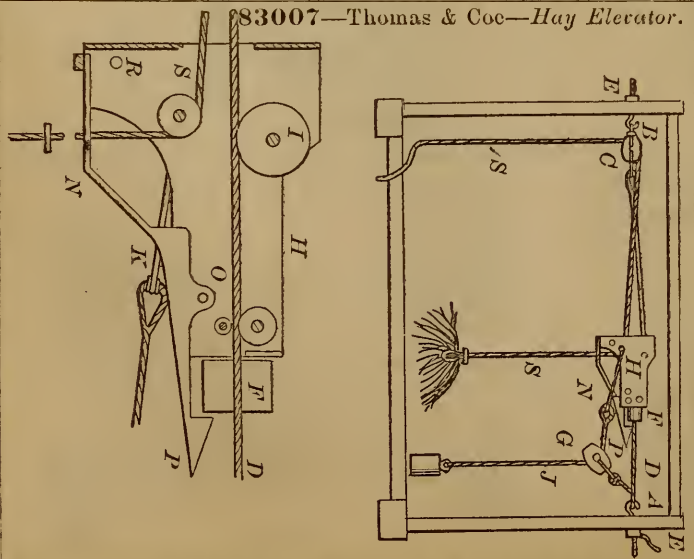
83003—G. R. & C. H. Sneath—*Dumping Wagon.*



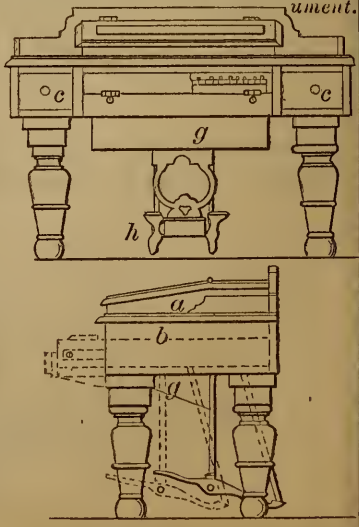
83006—Taney & Brown—*Hay Elevator.*



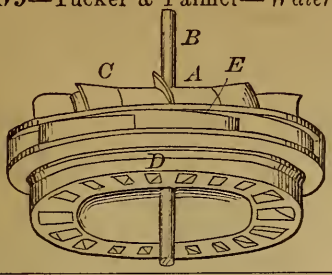
83007—Thomas & Coc—*Hay Elevator.*



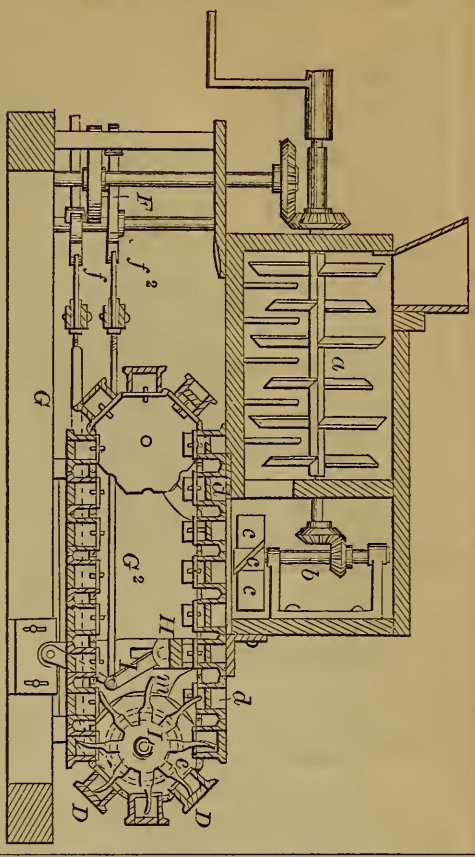
83008—W. O. Trowbridge—*School Desk and Musical Instrument.*

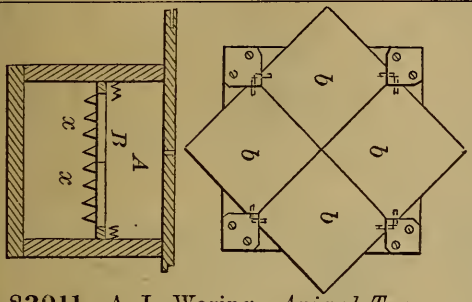


83009—Tucker & Palmer—*Water Wheel.*

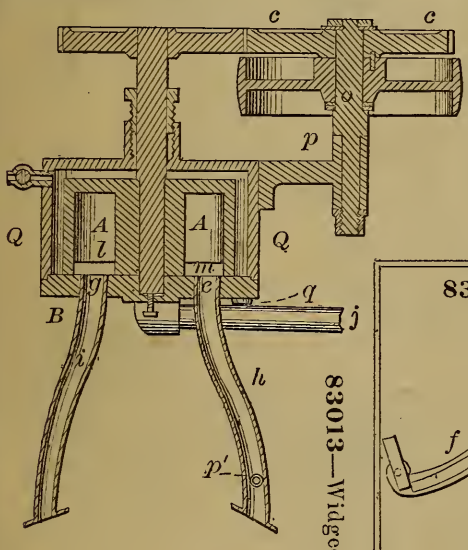


83010—P. & J. Wabrath—*Brick Machine.*

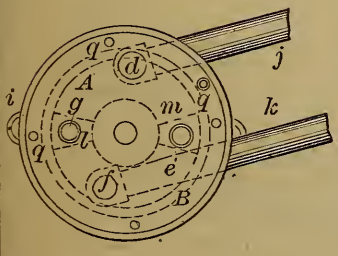




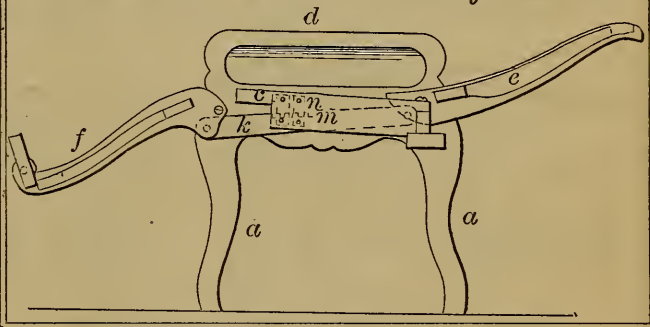
83011—A. L. Waring—*Animal Trap.*



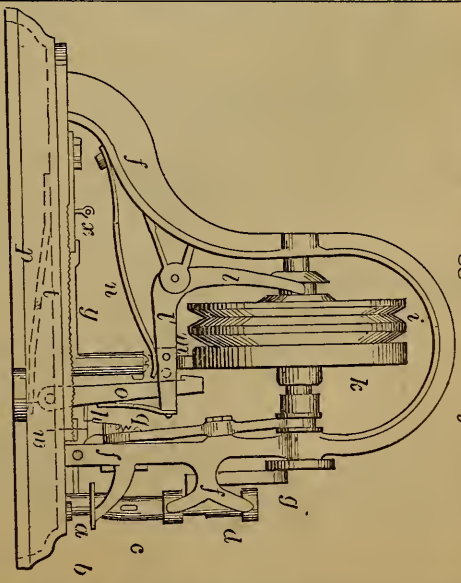
83013—Widgeon & Frey—*Boiler Feeder.*



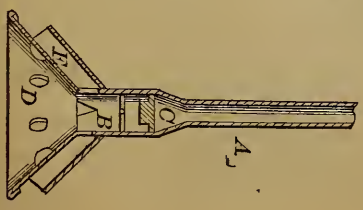
83012—J. W. Wetherbee—*Reclining Chair.*



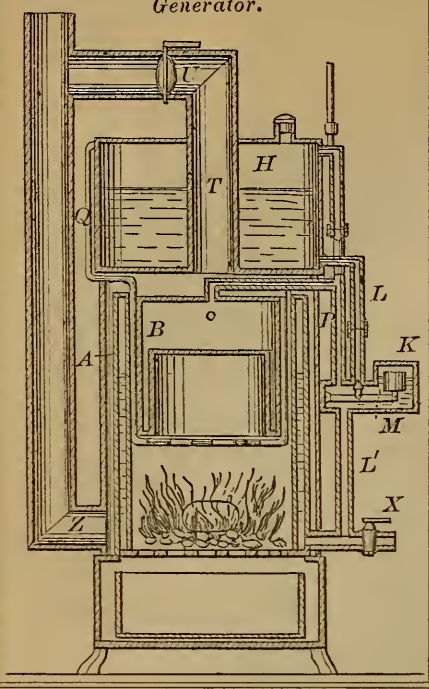
83014—J. E. Wiggin—*Punching Machine.*



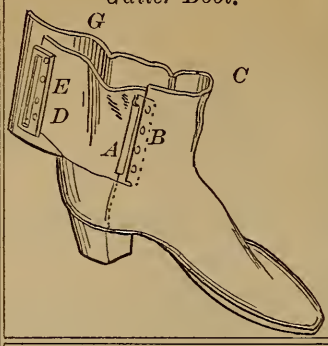
83015—S. Yates—*Churn Dasher.*



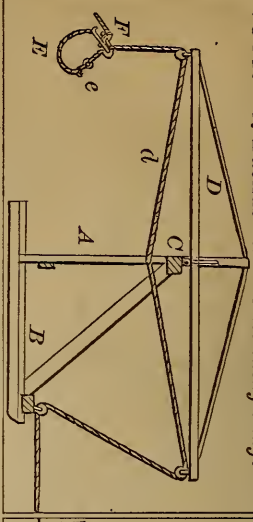
83016—V. D. Anderson—*Steam Generator.*



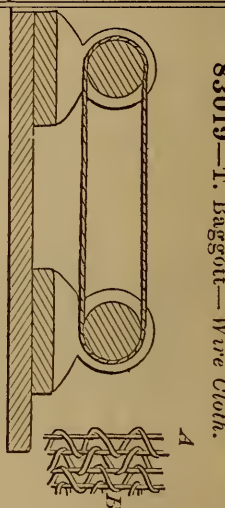
83017—W. H. H Babbitt—*Gaiter Boot.*



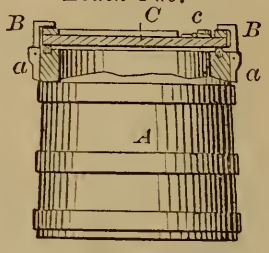
83018—J. Backus—*For Unloading Hay.*

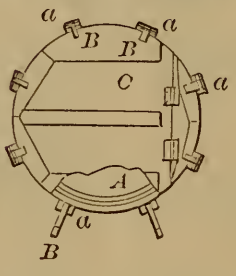


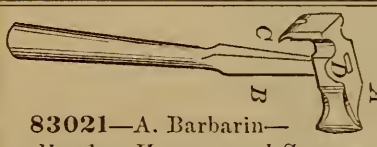
83019—T. Baggott—*Wire Cloth.*



83020—W. Banzett—*Leach Tub.*

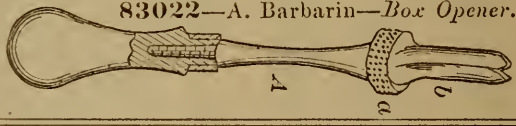




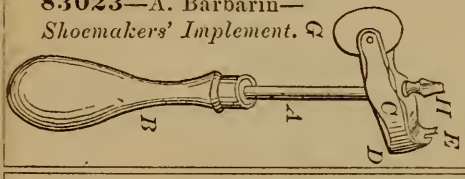


83021—A. Barbarin—*Hatchet, Hammer and Scraper.*

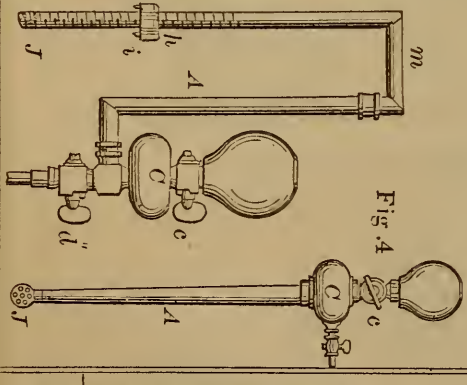
83022—A. Barbarin—*Box Opener.*



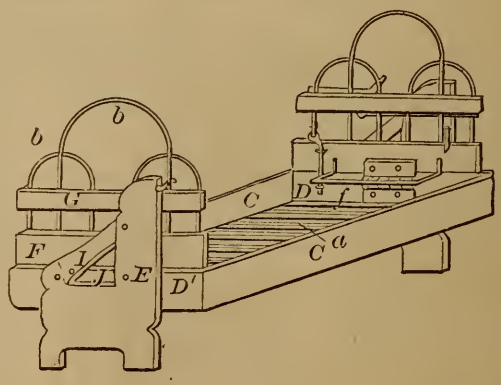
83023—A. Barbarin—*Shoemakers' Implement.*



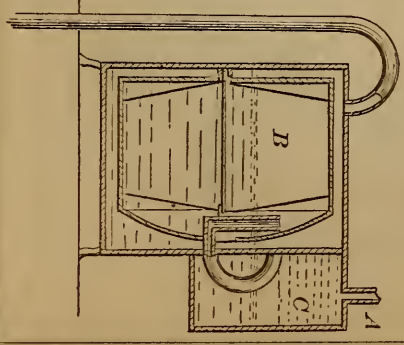
83024—A. Barbarin—*Liquid Sampler*



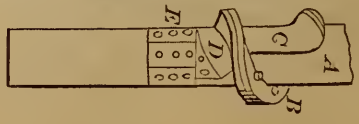
83025—W. P. Barclay—*Sofa Bedstead.*



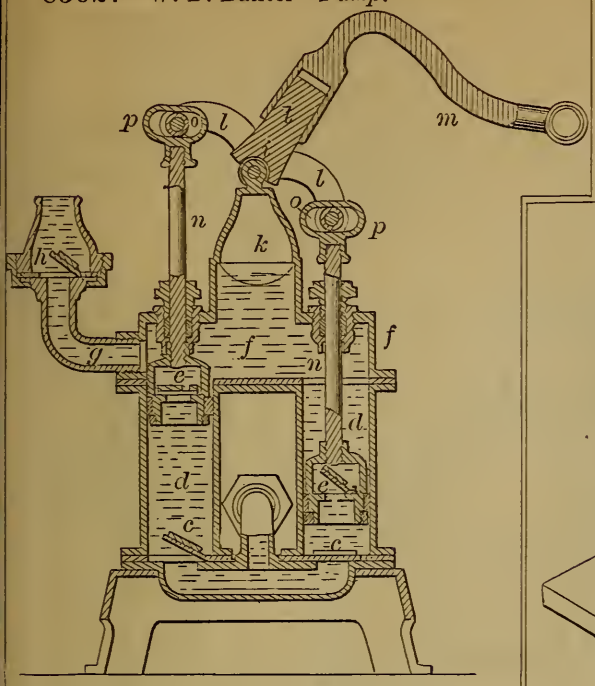
83026—J. A. Bassett—*Gas Generator.*



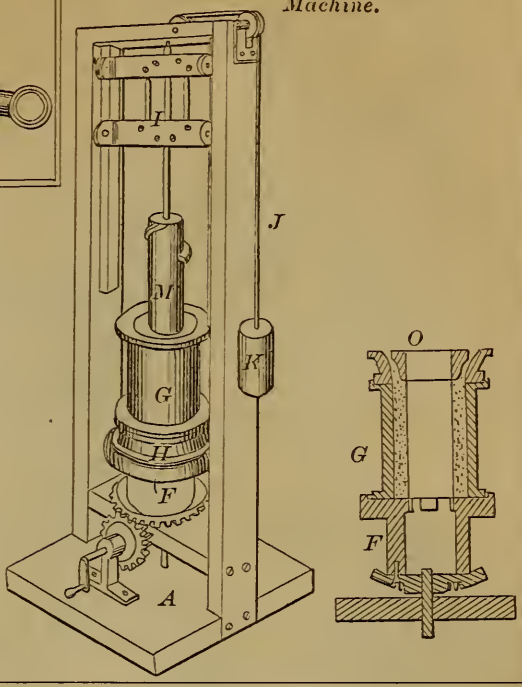
83029—B S. Benson—*For Packing Sand in Moulders' Flasks.*



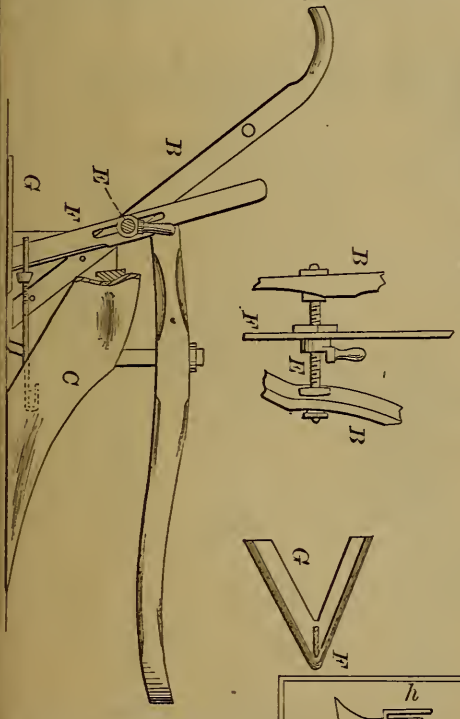
83027—W. D. Baxter—*Pump.*



83028—B. S. Benson—*Pipe Moulding Machine.*

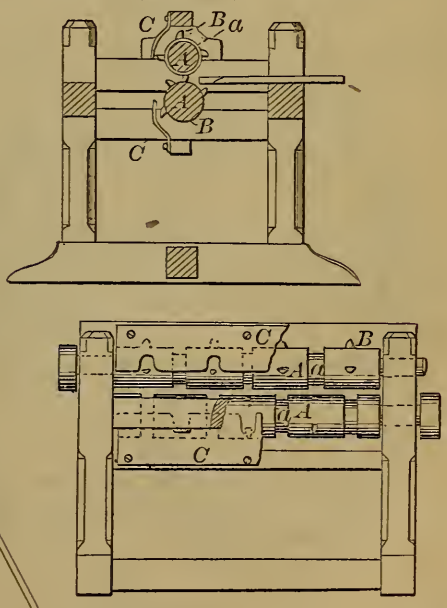


83030—M. Berdan—*Plow.*

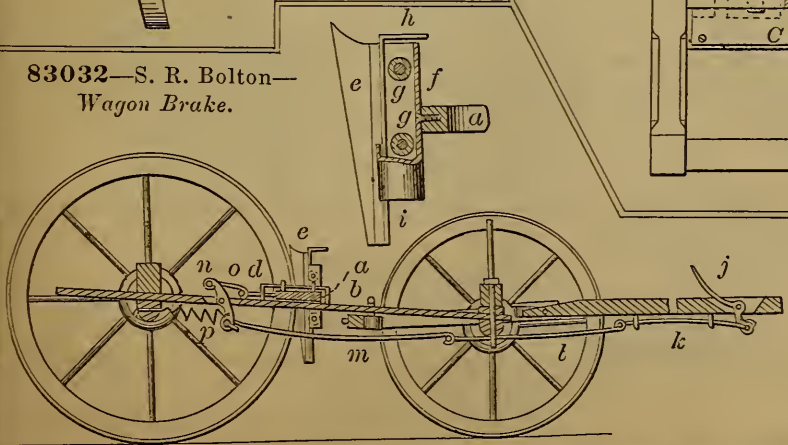


83031—S. C. Bishop—*Compound for Insulating Telegraph Wires.*

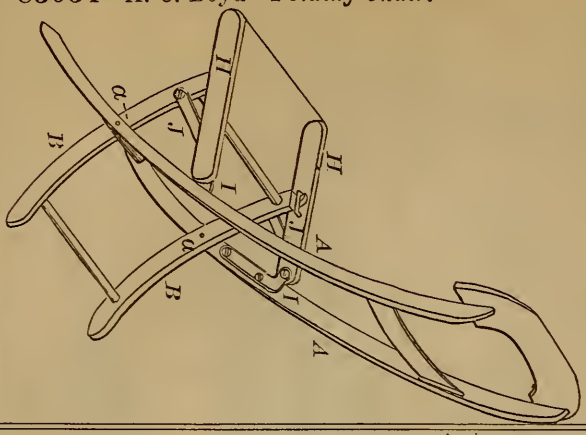
83033—D. Bookwalter—*Corn Husking Machine.*



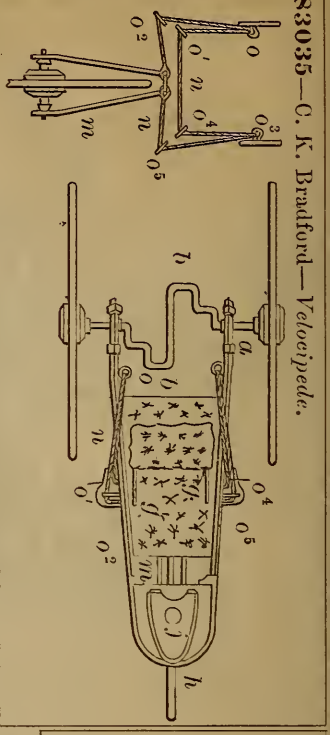
83032—S. R. Bolton—*Wagon Brake.*



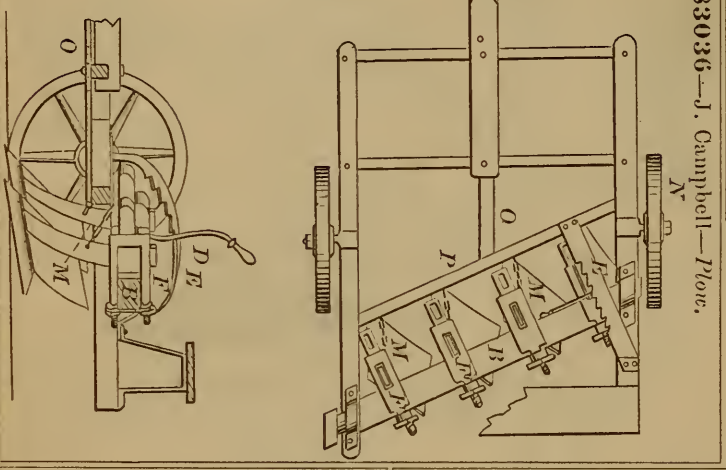
83034—A. C. Boyd—*Folding Chair.*



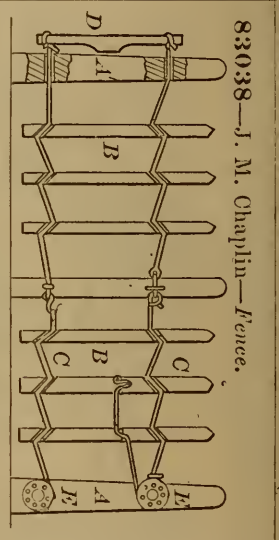
83035—C. K. Bradford—*Velocipede.*



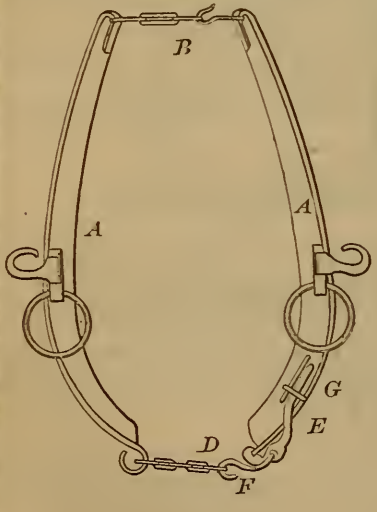
83036—J. Campbell—*Plow.*



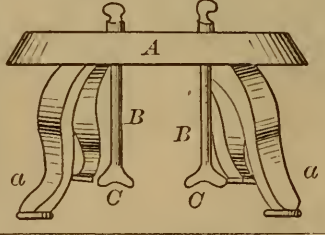
83038—J. M. Chaplin—*Fence.*



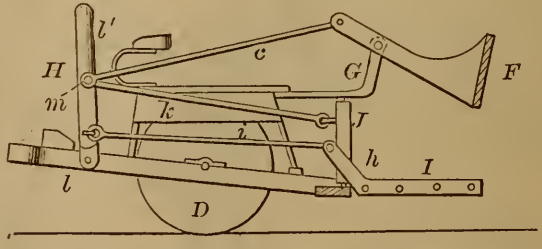
83041—D. Clemons—*Hames.*



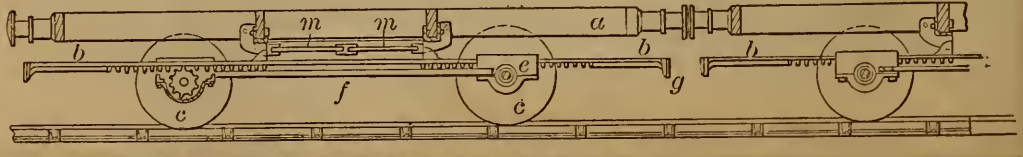
83039—C. A. Class—*Pedal for Pianos.*



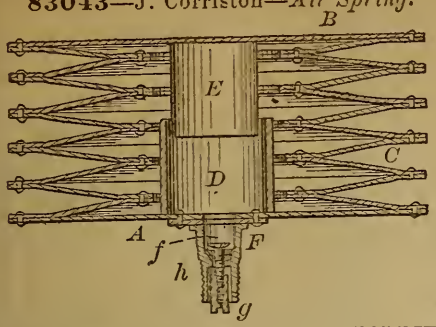
83040—G. R. Clements—*Dropper for Harvesters.*



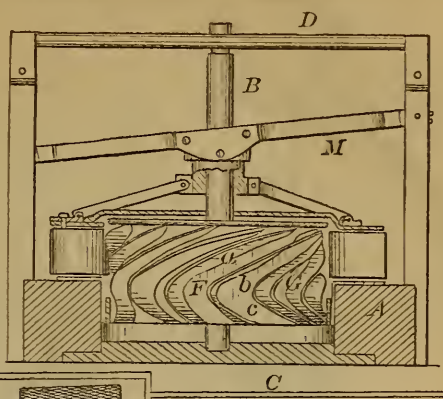
83042—Cockshoot & Weatherill—*Car Brake.*



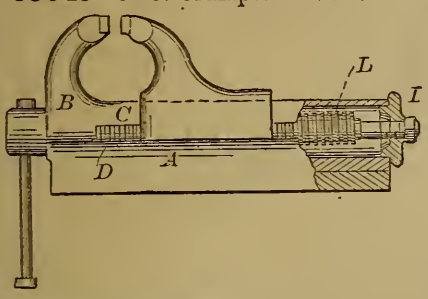
83043—J. Corriston—*Air Spring.*

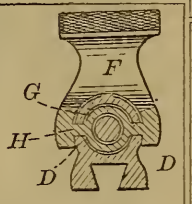


83044—G. Cox—*Water Wheel.*



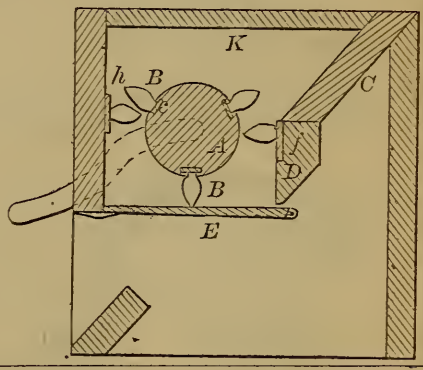
83045—J. C. Crumpton—*Vise.*



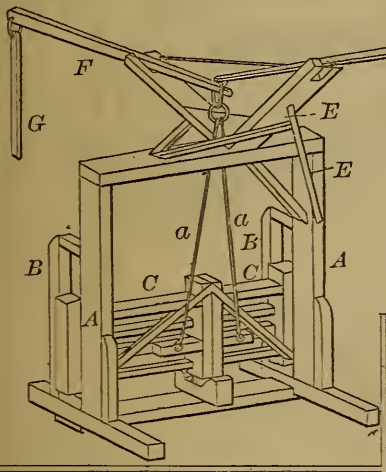


83047—E. C. Dicey—*Feeding Roller for Circular Saws.*

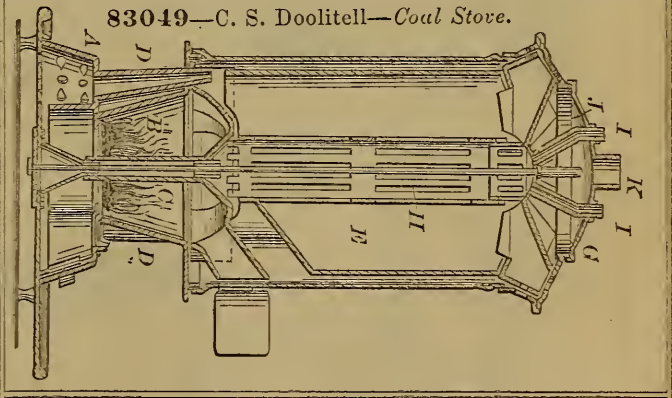
83048—V. Doane, Jr.—*Fish Bait Cutter.*



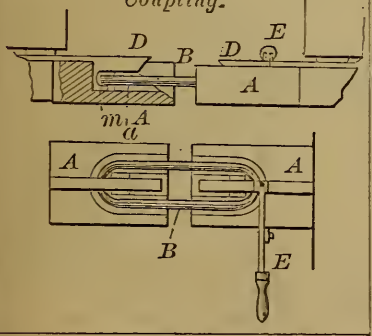
83046—S. S. Davis—*Gate.*



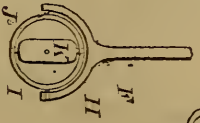
83049—C. S. Doolitell—*Coal Stove.*

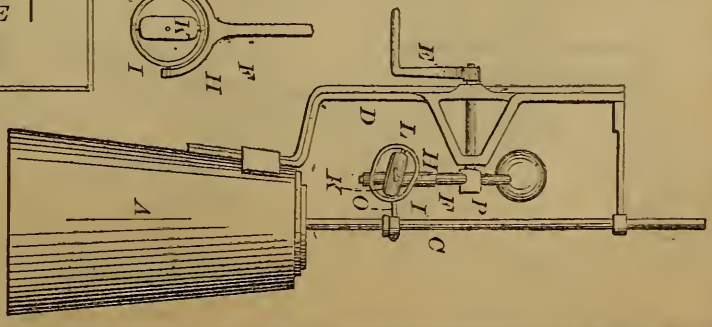


83052—A. J. Elder—*Car Coupling.*

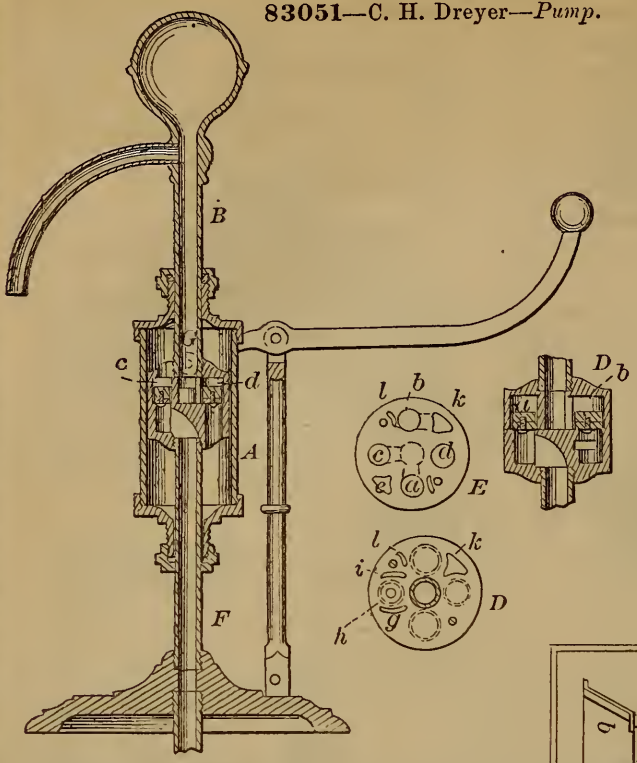


83050—W. C. Douthett—*Churn.*

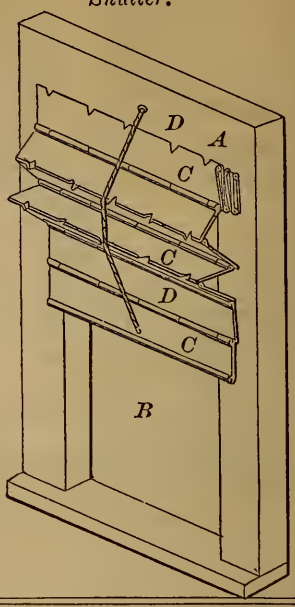




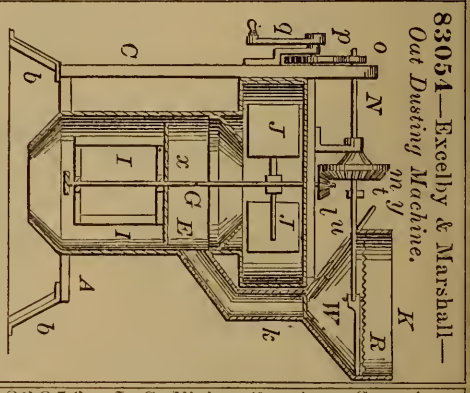
83051—C. H. Dreyer—*Pump.*



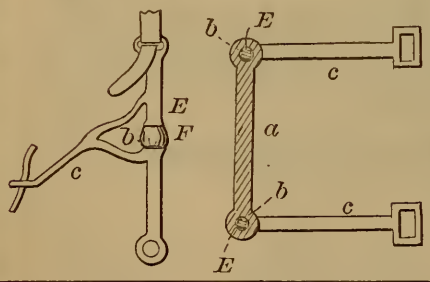
83053—F. Engel—*Window Shutter.*



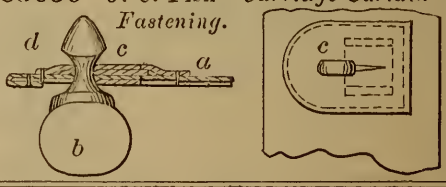
83054—Excelby & Marshall—*Oat Dusting Machine.*



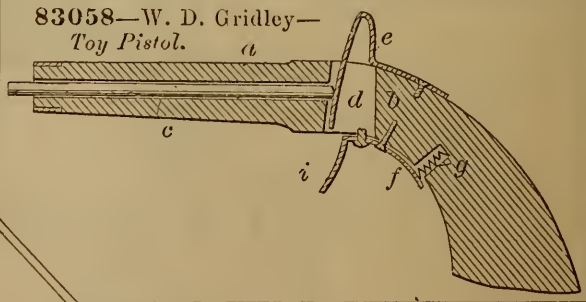
83055—E. R. Ferry—*Safety Bridle.*



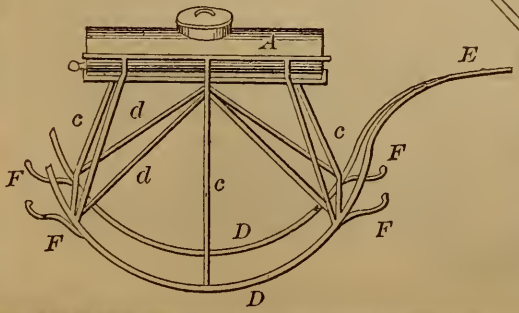
83056—J. C. Fish—*Carriage Curtain Fastening.*



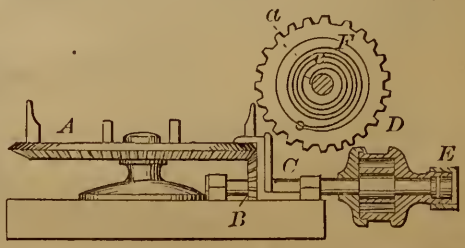
83058—W. D. Gridley—*Toy Pistol.*



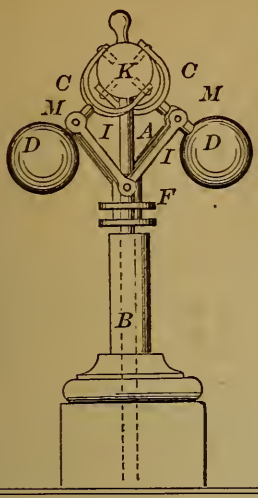
83057—N. C. Folger—*Churn.*



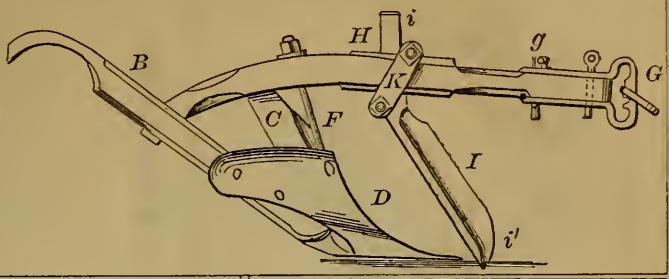
83059—J. A. Hafner—*Horse Power.*



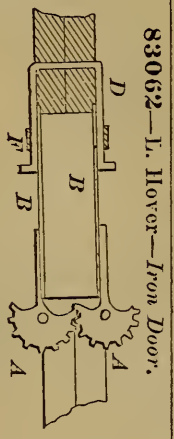
83060—W. S. Henson—*Engine Governor.*



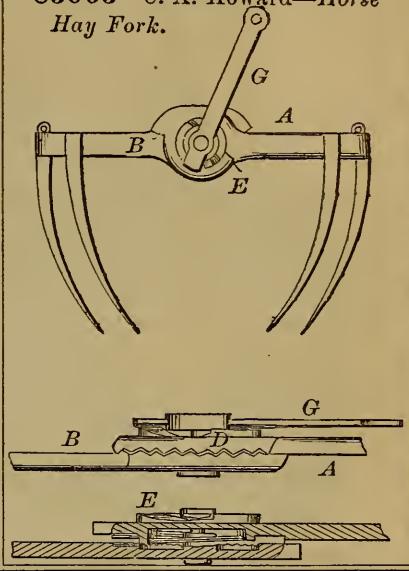
83061—R. S. Higgins—*Plow.*



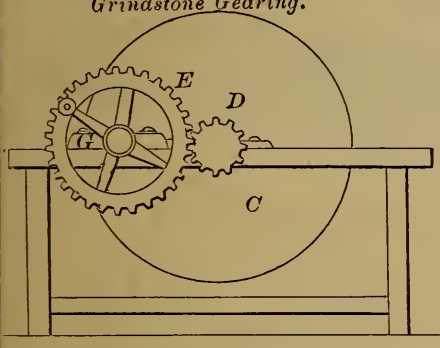
83062—L. Hover—*Iron Door.*



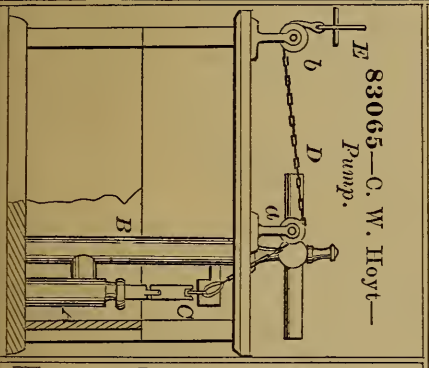
83063—C. A. Howard—*Horse Hay Fork.*



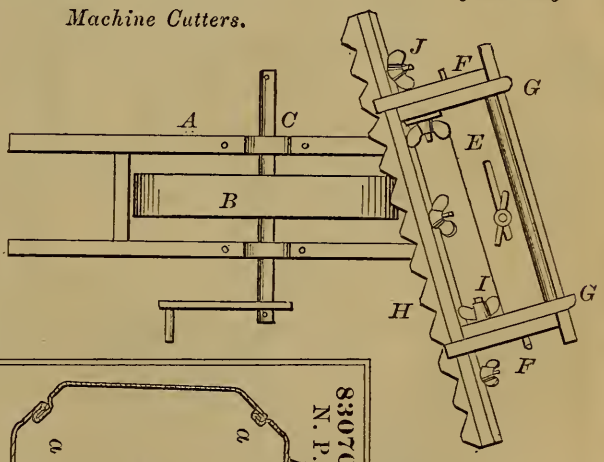
83064—Howlett & Sherman—*Grindstone Gearing.*



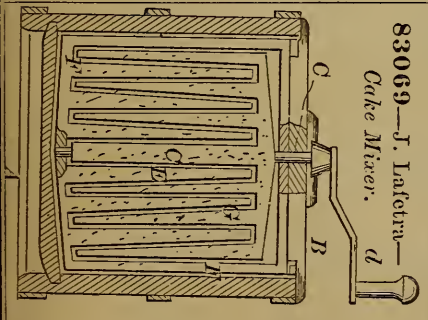
83065—C. W. Hoyt—*Pump.*



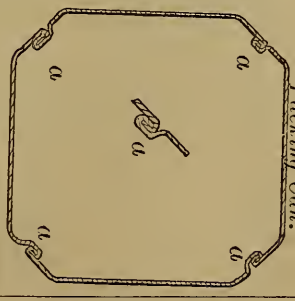
83067—D. W. Jameson—*For Grinding Mowing Machine Cutters.*



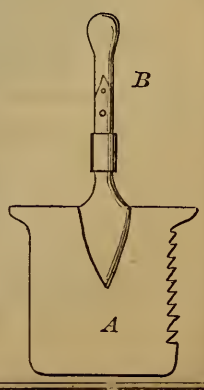
83069—J. Lafetra—*Cake Mixer.*



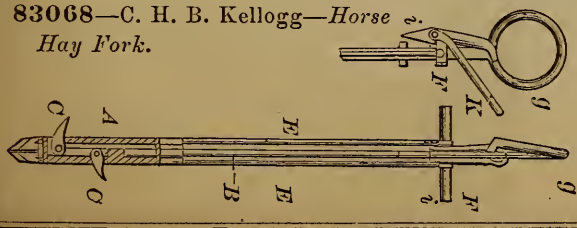
83070—N. P. Lindergreen—*Packing Can.*



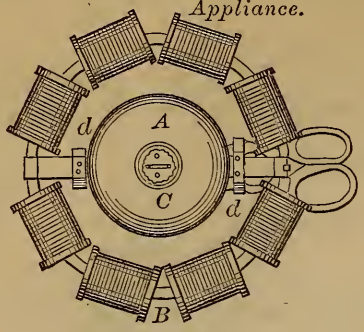
83071—J. Linnemann—*Spade.*

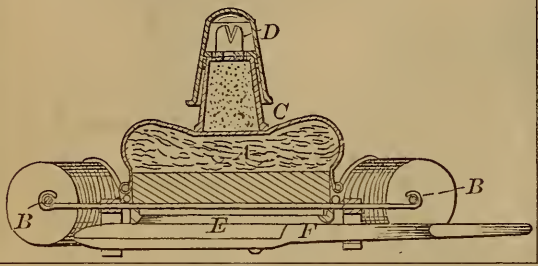


83068—C. H. B. Kellogg—*Horse Hay Fork.*

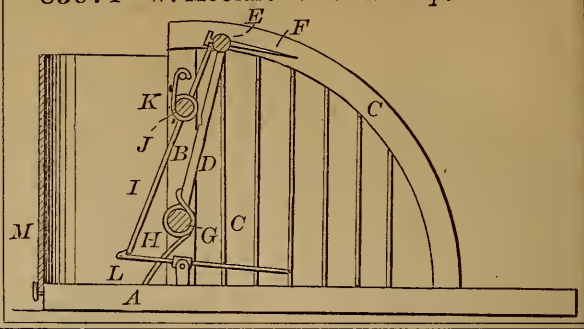


83072—J. G. Lucas—*Work Table Appliance.*

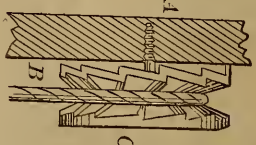




83074—W. McClure—*Animal Trap.*

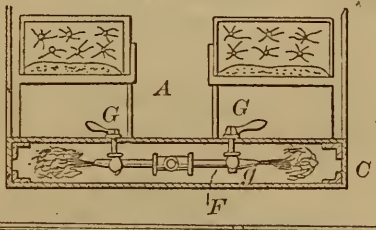


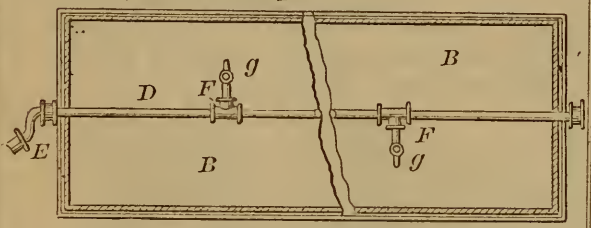
83075—D. W. C. McMaster—*Line Holder.*



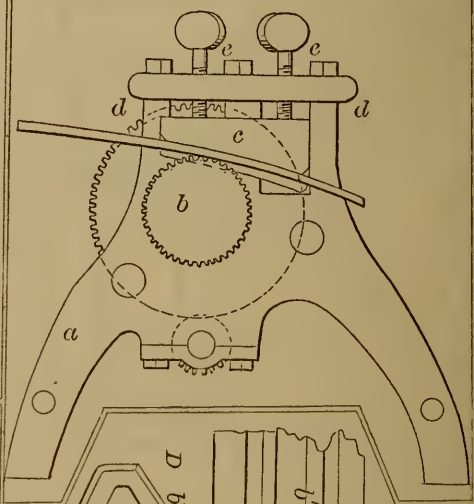
83077—J. Meley—*Grave Mound.*

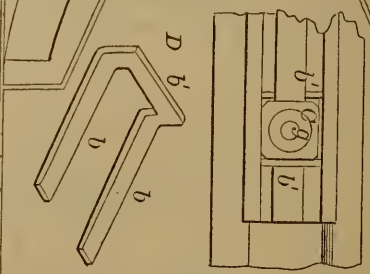
83076—F. M. Meddock—*For Heating Cars.*



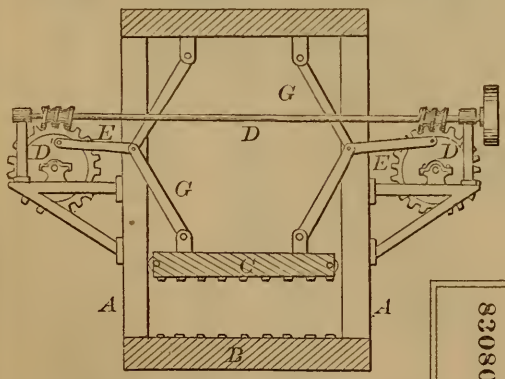


83078—J. Merrill—*For Bending*



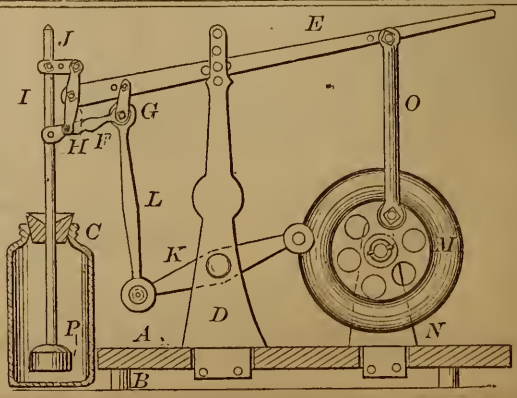


83079—J. F. Milligan—*Baling Press.*

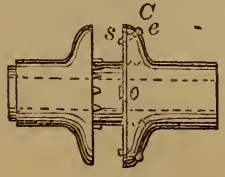


83081—W. Morehouse—*Nut Lock.*

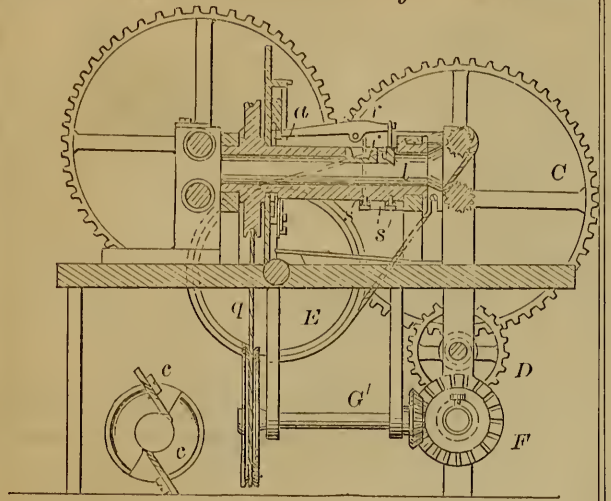
83080—E. J. Moore—*Churning Apparatus.*

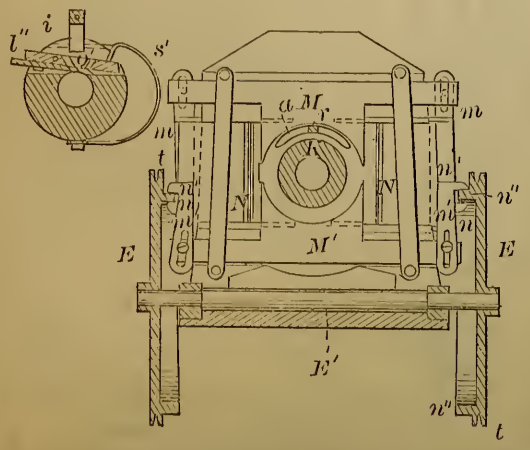


83083—S. Mosher—*Hub and Box for Wheels.*

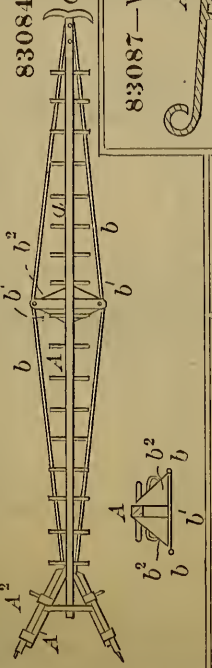


83082—G. M. Morrow—*For Turning Broom Handles.*

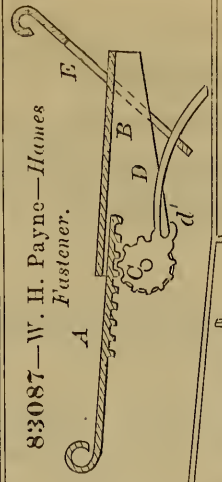




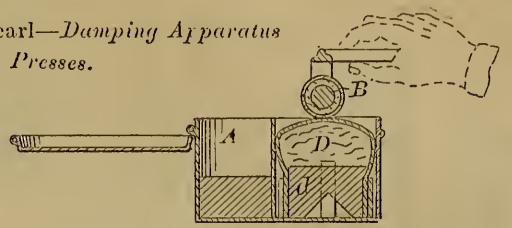
83084—P. M. Papin—*Ladder.*



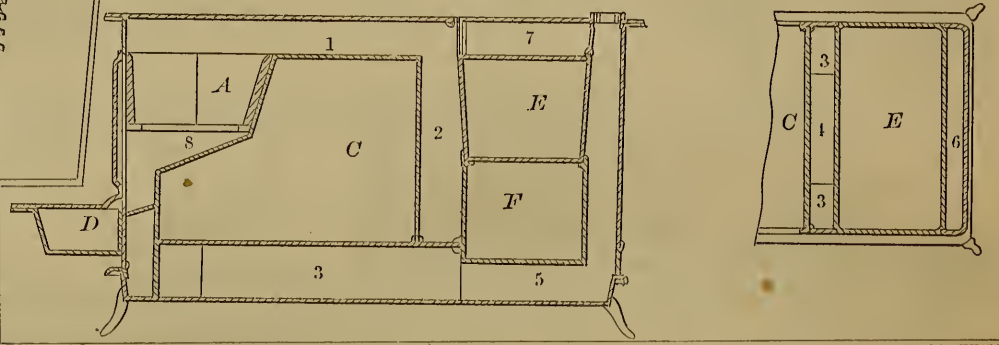
83087—W. H. Payne—*Hames Fastener.*



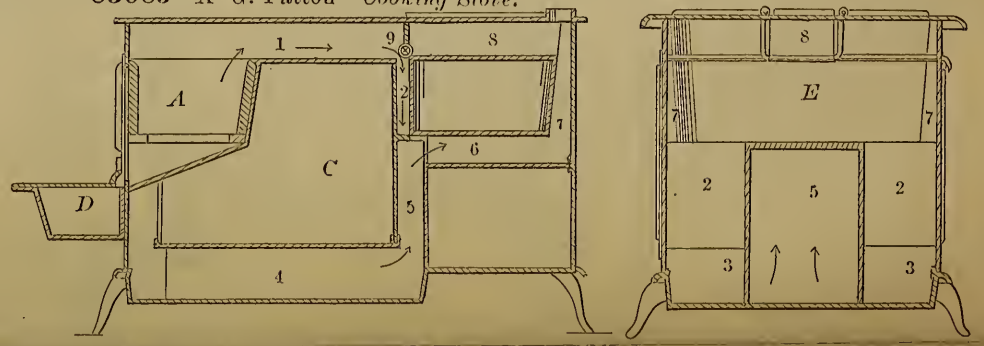
83088—A. Pearl—*Damping Apparatus for Copying Presses.*



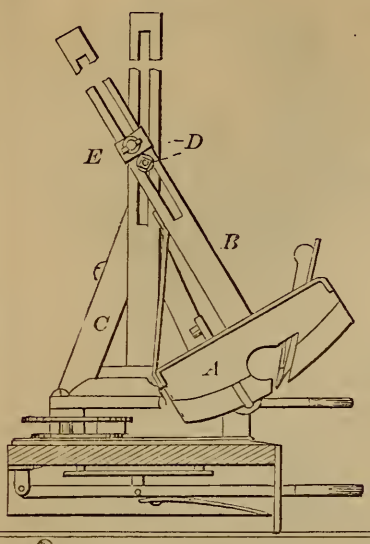
83086—A. G. Patton—*Cooking Stove.*



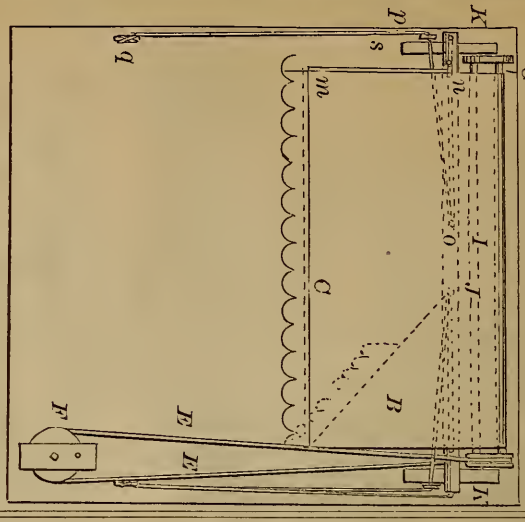
83085—A G. Patton—*Cooking Stove.*



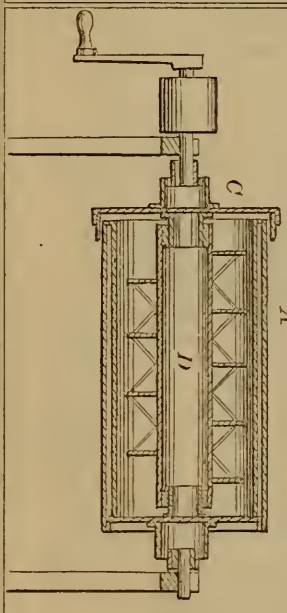
83089—F. K. Plumbly—*Planing Machine.*



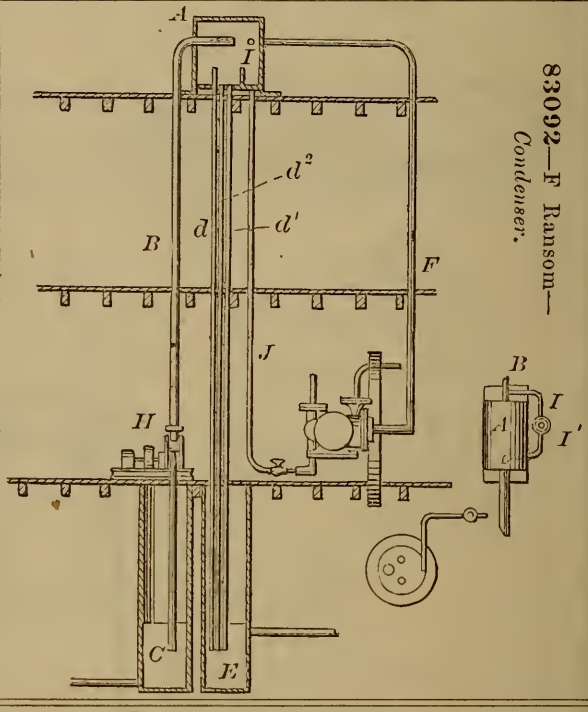
83090—R. P. Pratt—*Awning.* D



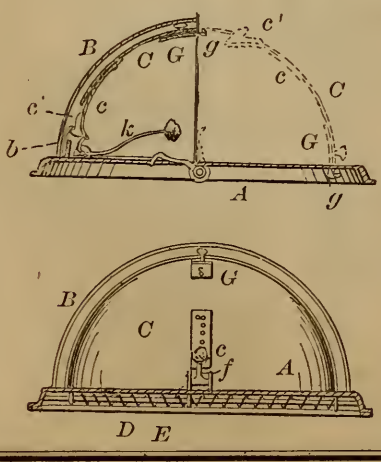
83091—J. H. Rae—*Electrical Amalgamator.*



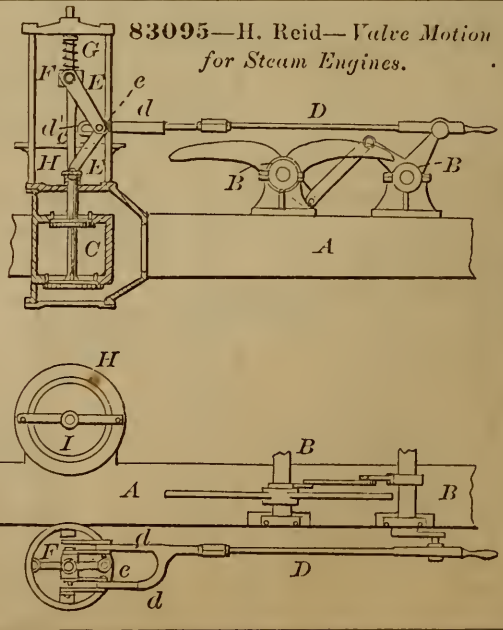
83092—F Ransom—*Condenser.*



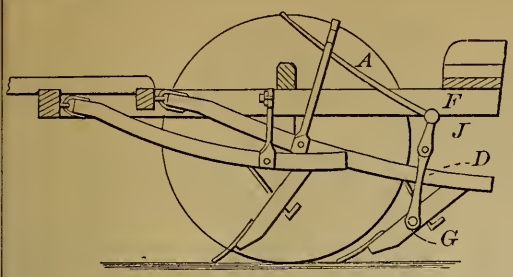
83094—E. Reichard—*Animal Trap.*

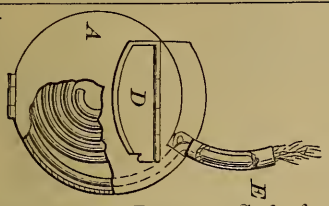


83095—H. Reid—*Valve Motion for Steam Engines.*



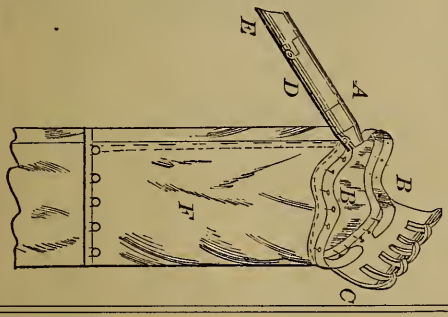
83093—E. F. Rate—*Corn Cultivator.*



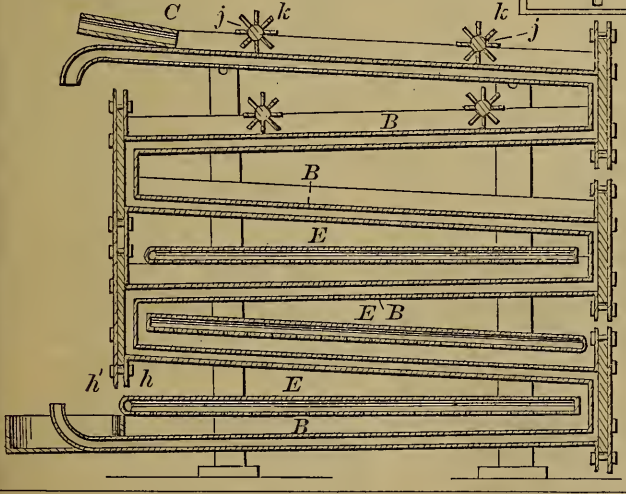


83097—W. H. Rogers—*Safe for Friction Match Cord.*

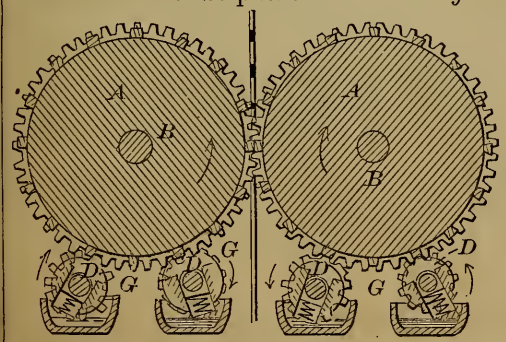
83098—J. Schroy—*Fruit Picker.*



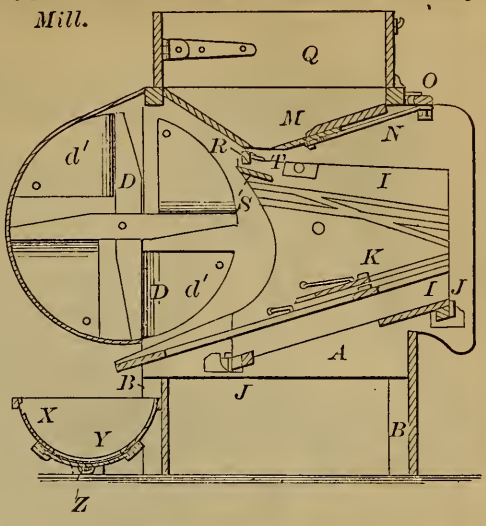
83099—L. Schulze—*Beer Cooler.*

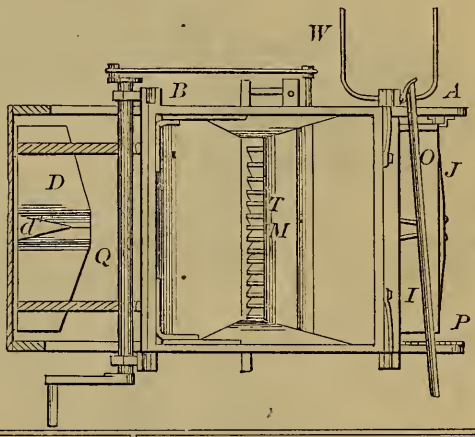


83103—E. J. Stephens—*For Printing Yarn.*

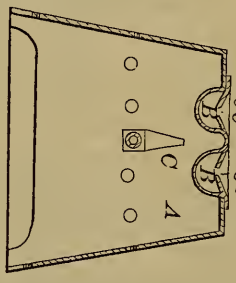


83096—Richards & Strickland—*Fanning Mill.*

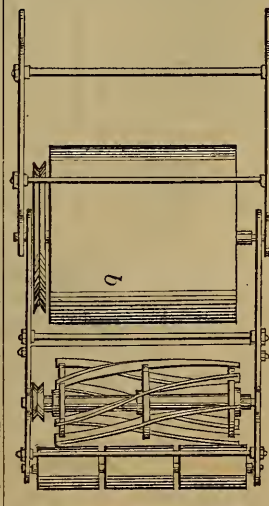




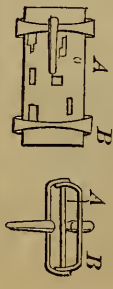
83100—C. Seimel—*Soldering Vessel.*



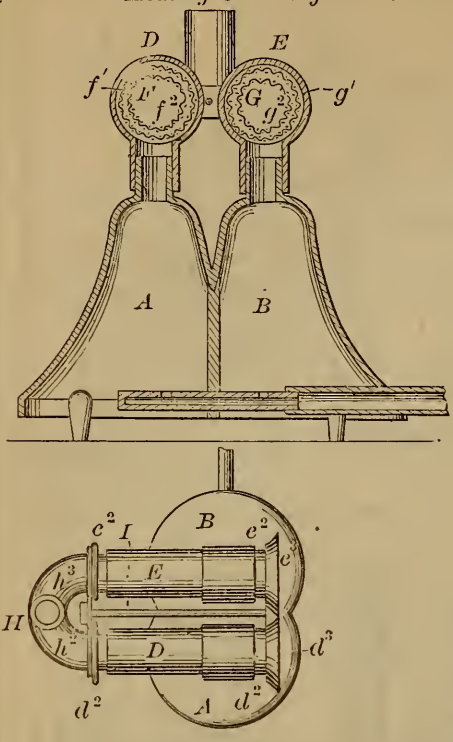
83101—J. Shaw—*Lawn Mower.*



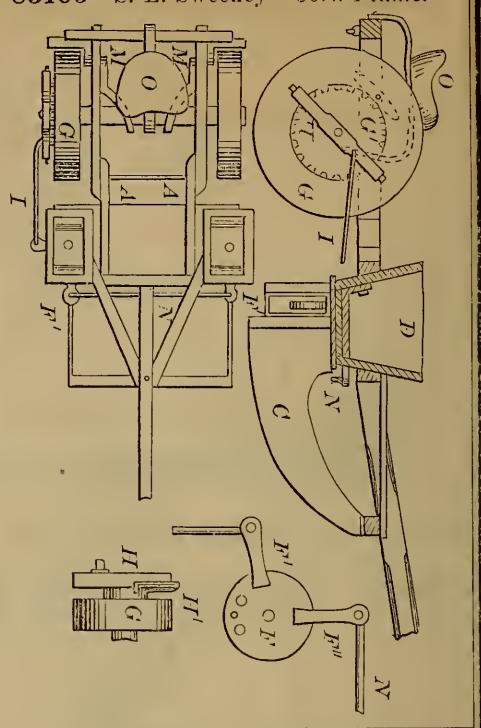
83102—P. Smith—*Buckle.*



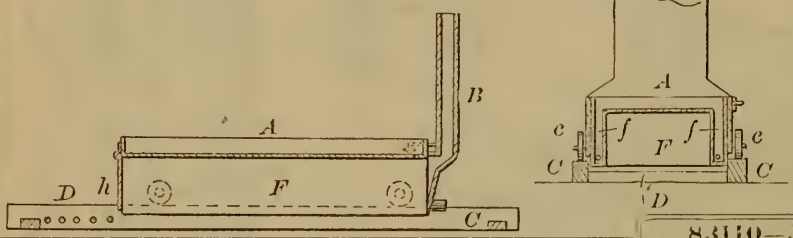
83104—J. H. Stimpson—*Gas Furnace for Heating Soldering Tools.*



83105—S. L. Sweeney—*Corn Planter*

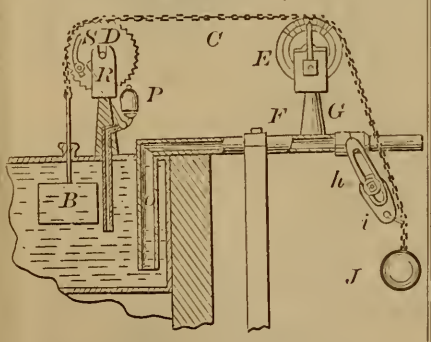


83106—J. Taylor—*Sugar Juice Evaporator.*

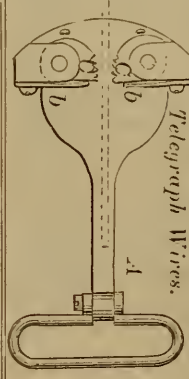


83107—E. A. Thomas—*Steam Joint for Cans.*

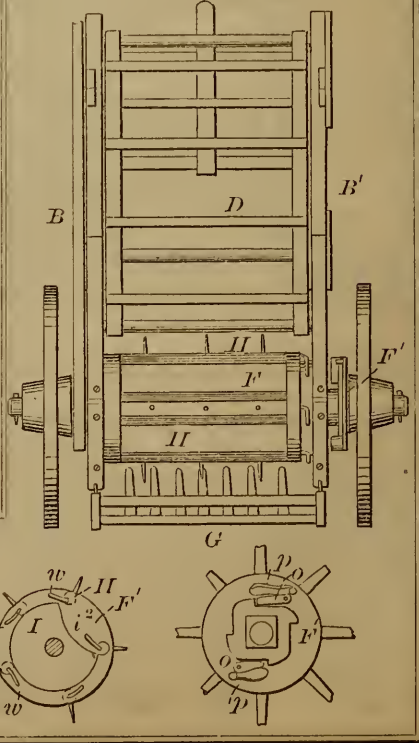
83108—J. L. Thomas—*Steam Generator.*



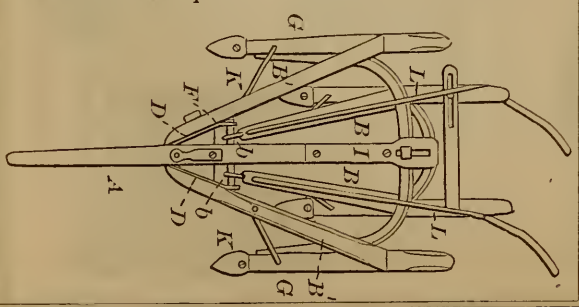
83109—G. M. Thompson—*Telegraph Wire Stretching*



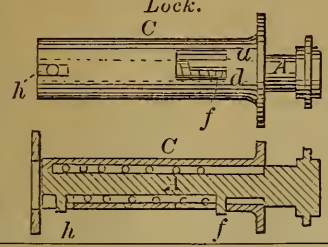
83110—J. J. Thompson—*Hay Raker and Loader.*



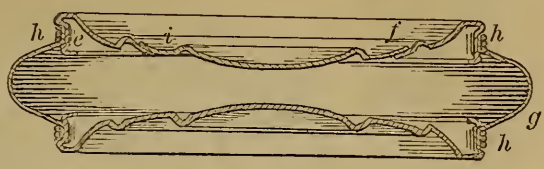
83111—Thompson & Collier—*Cultivator.*



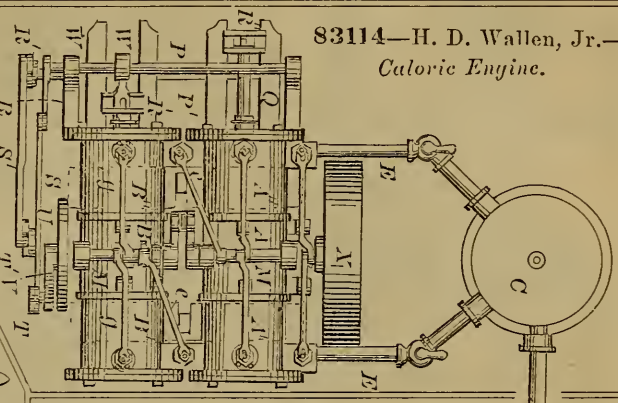
83112—E. H. Tobey—*Sash Lock.*



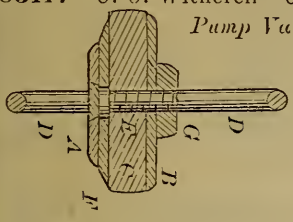
83113—A. Tufts—*Gas Meter.*



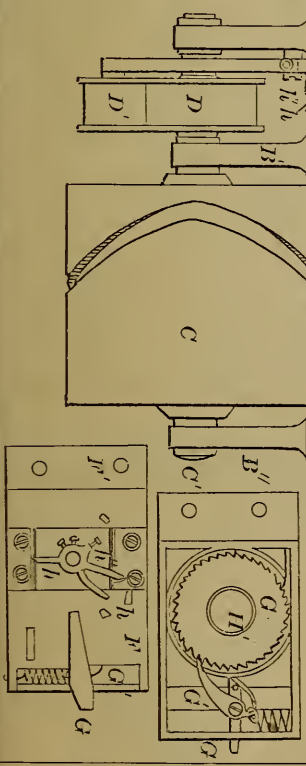
83114—H. D. Wallen, Jr.—*Caloric Engine.*



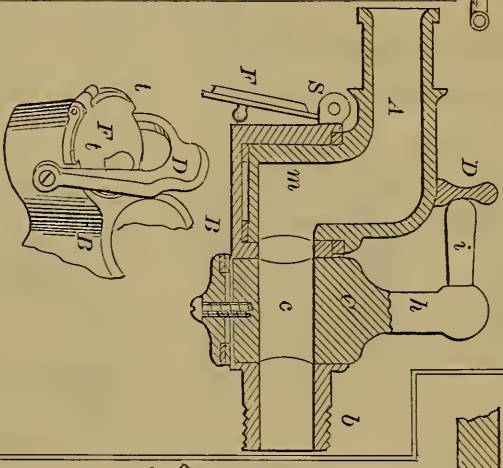
83117—O. O. Witherell—*Chain Pump Valve.*



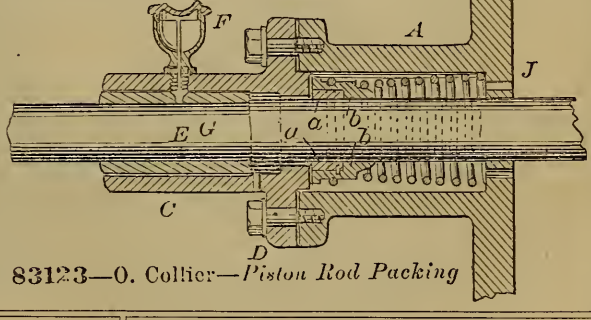
83116—E. Wilder—*Knitting Machine.*



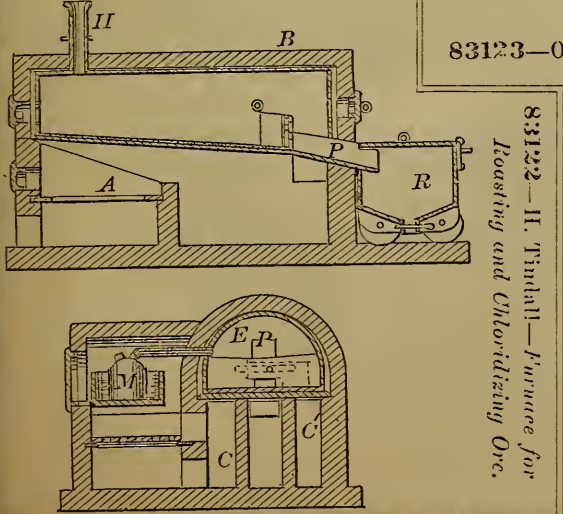
83118—W. H. Yeaton—*Pipe Coupling.*



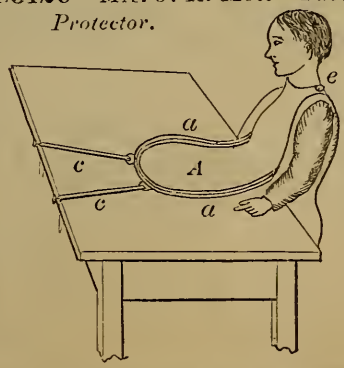
83123—O. Collier—*Piston Rod Packing*



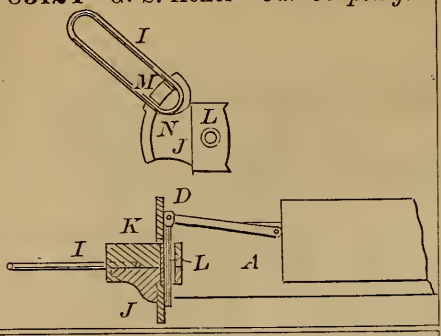
83122—H. Tindall—*Furnace for Roasting and Chloridizing Ore.*



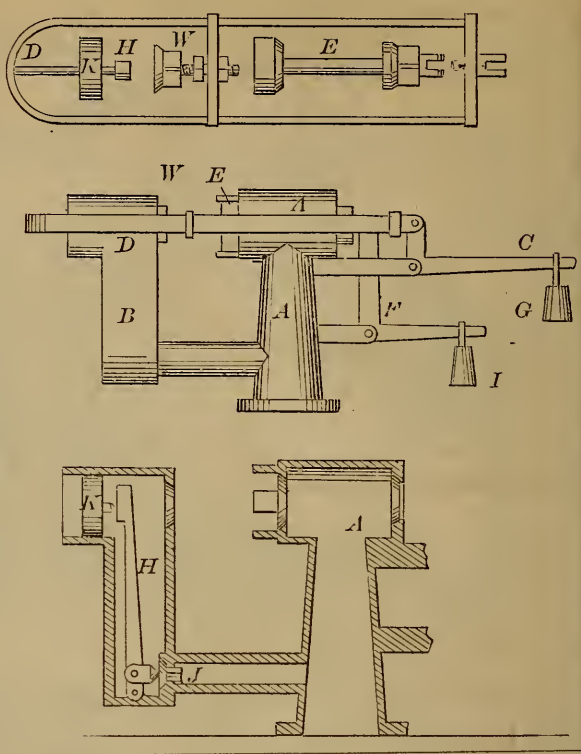
83120—Mrs. J. H. Mott—*Table Cloth Protector.*



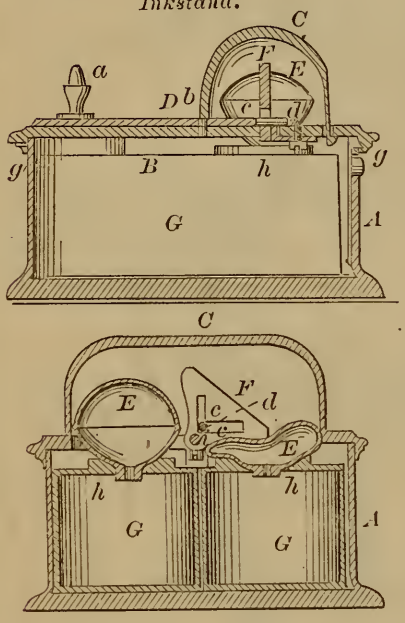
83124—G. S. Acker—*Car Coupling.*



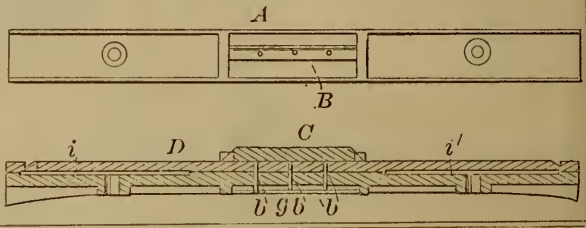
83125—E. Andrews—*Boiler Safety Valve.*



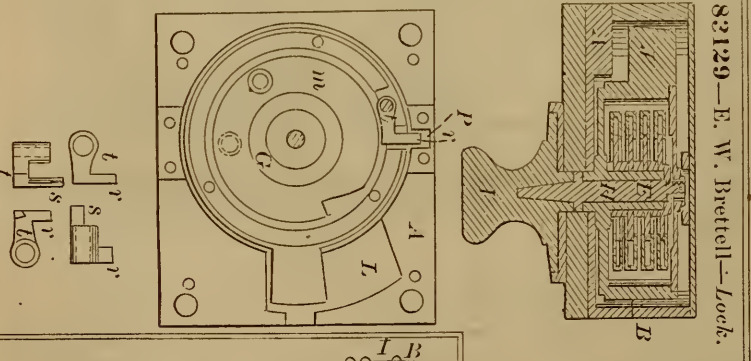
83126—Andrews & Rawson—*Inkstand.*



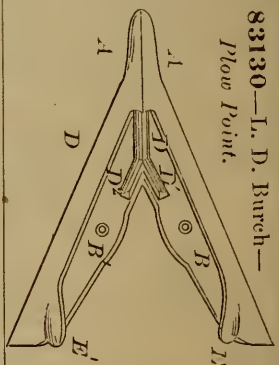
83127—G. W. Bishop—*Revenue Stamp.*



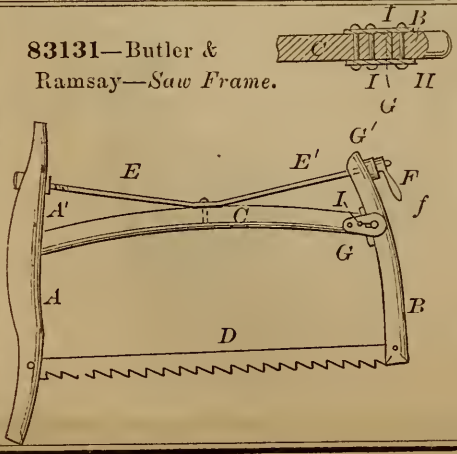
83129—E. W. Brettell—*Lock.*



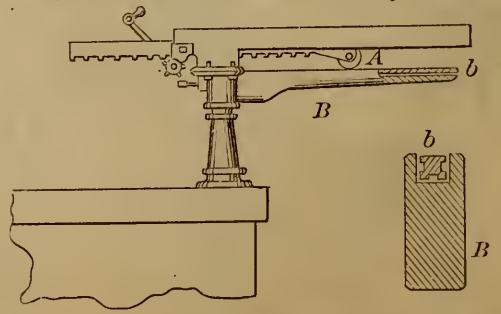
83130—L. D. Burch—*Plow Point.*



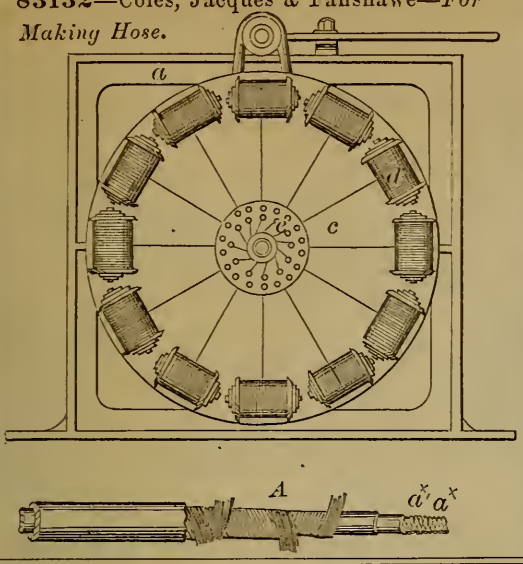
83131—Butler & Ramsay—*Saw Frame.*



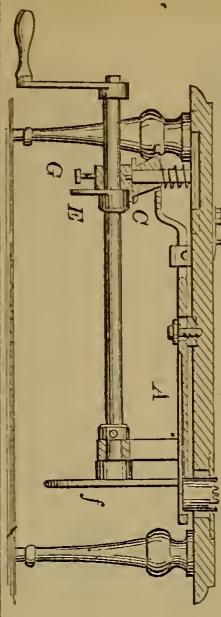
83128—Bond & Lee—*Grooving Machine.*



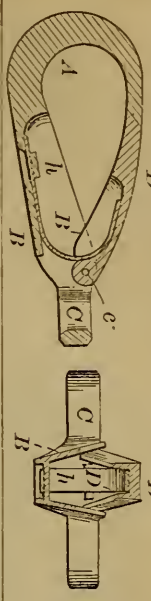
83132—Coles, Jacques & Fanshawe—*For Making Hose.*



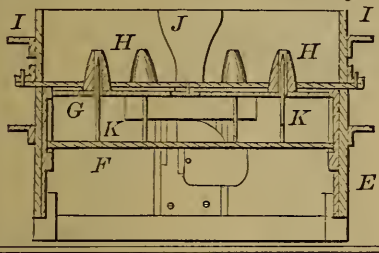
83133—J. L. & D. H. Coles—*Sewing Machine.*

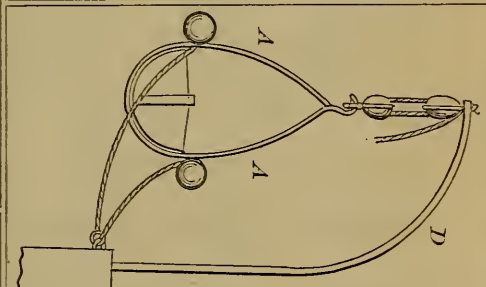


83134—E. A. Cooper—*Snap Hook.*



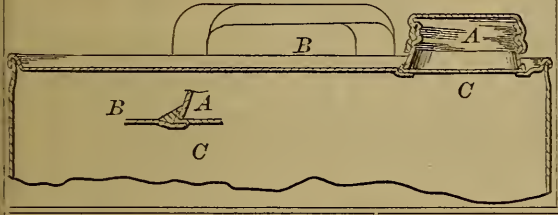
83135—G. G. Cressey—*Venting Core.*



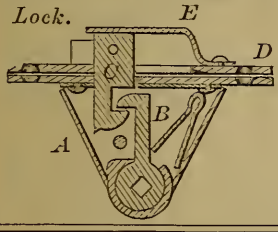


83136—T. L. Cuthbert—*Boat Detaching Apparatus.*

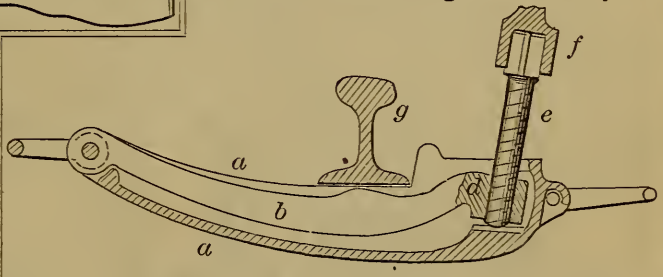
83140—F. W. Devoe—*Can Nozzle.*



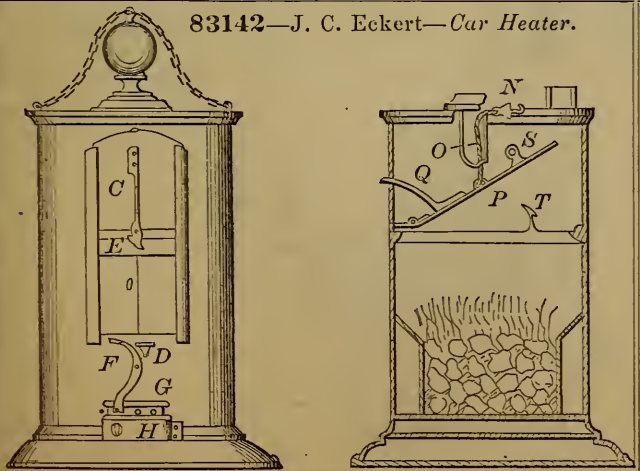
83137—C. N. Cutter—*Trunk Lock.*



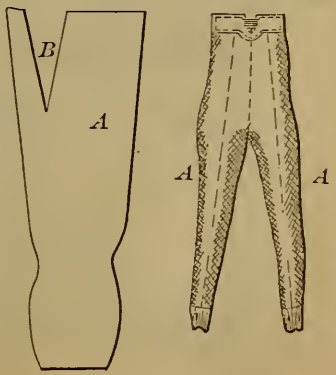
83138—C. de Bergue—*Track Lifter.*



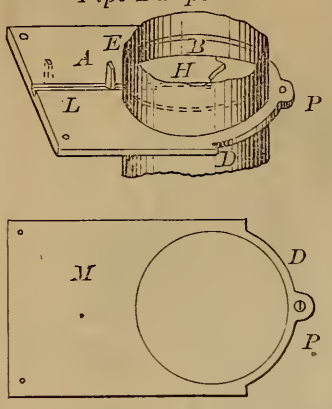
83142—J. C. Eckert—*Car Heater.*



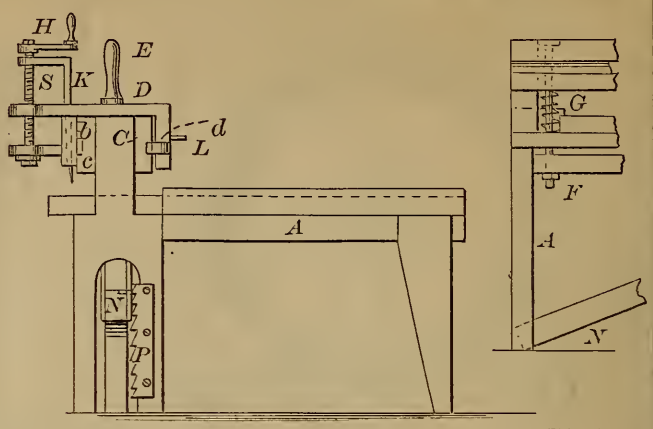
83141—J. Dyson—*Cloth Drawer.*



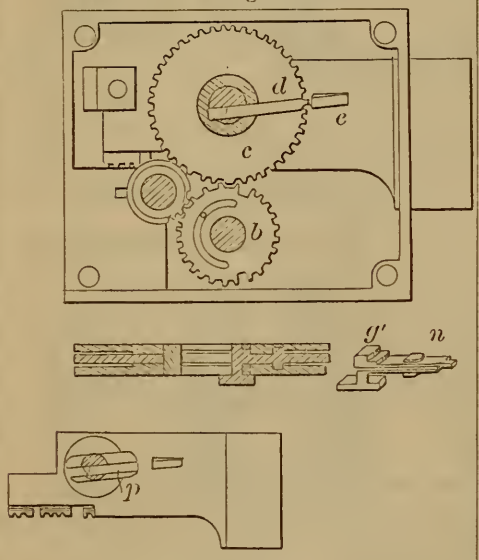
83139—W. H. Deily—*Stove Pipe Damper.*



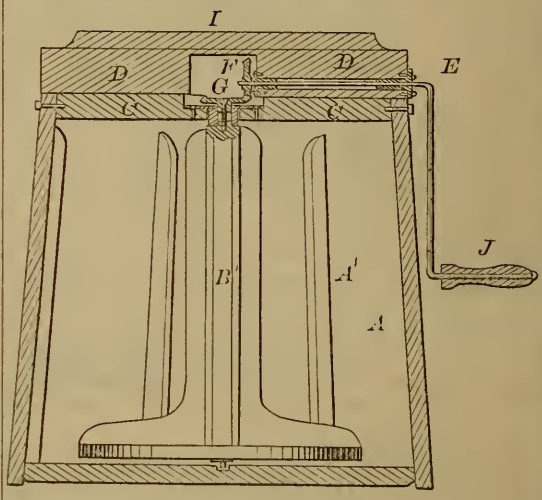
83143—S. Ellsworth—*Paper Cutting Machine.*



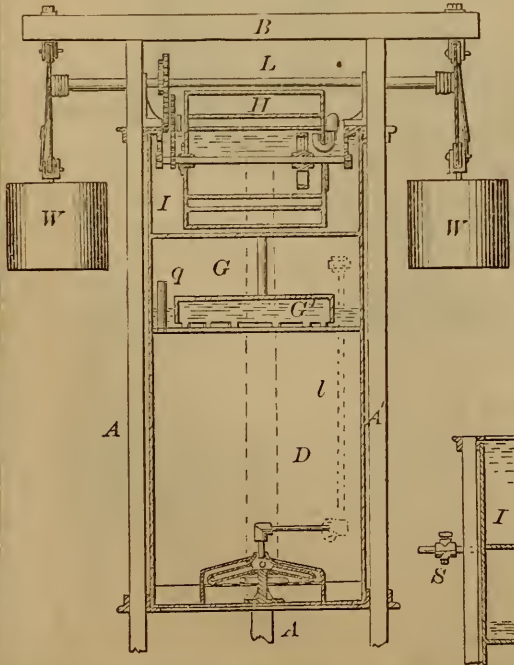
83144—W. F. Ensign—*Lock.*



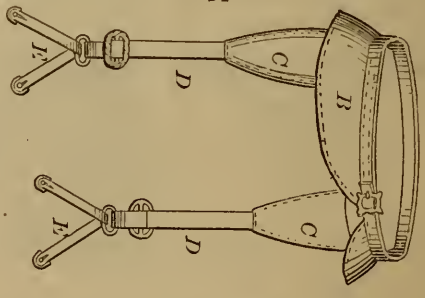
83145—R. E. Ferguson—*Washing Machine.*

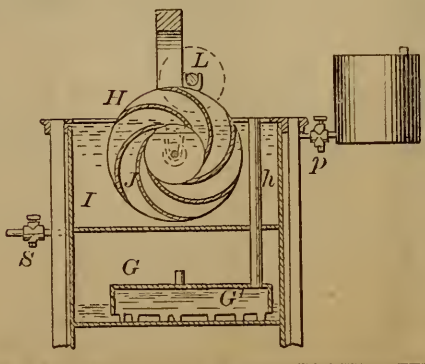


83147—T. F. Frank—*For Carburetting Air.*

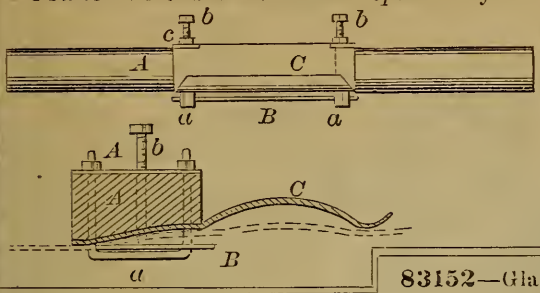


83146—M. J. Foss—*Skirt and Hose Supporter.*

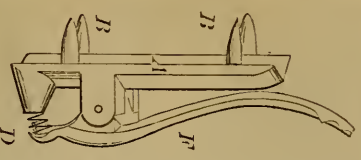




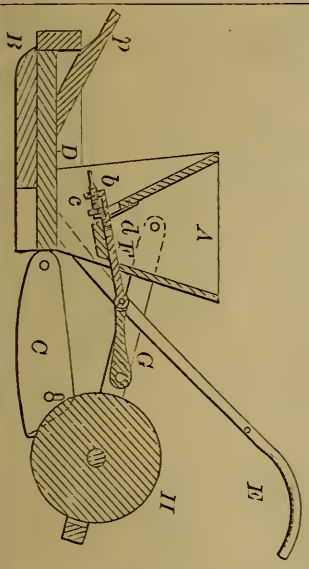
83148—Friend & McCollom—*Splint Knife.*



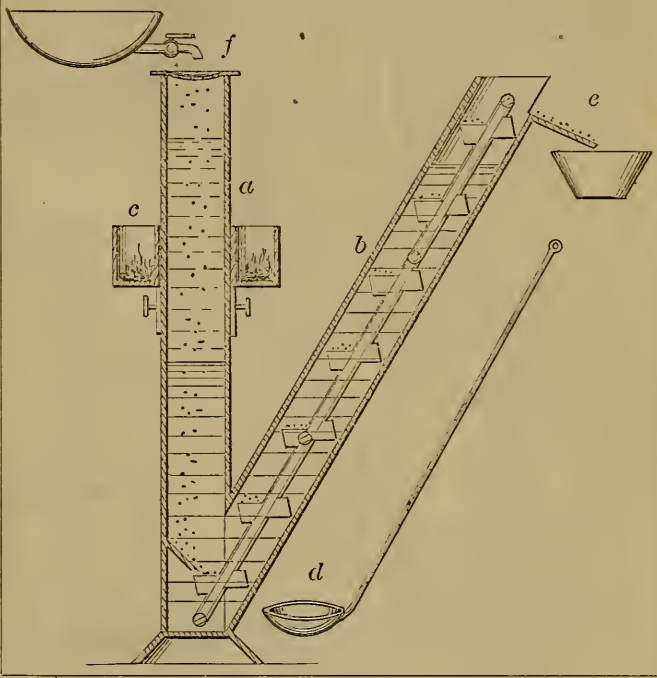
83150—Gillett & Inman—*Rein Holder.*



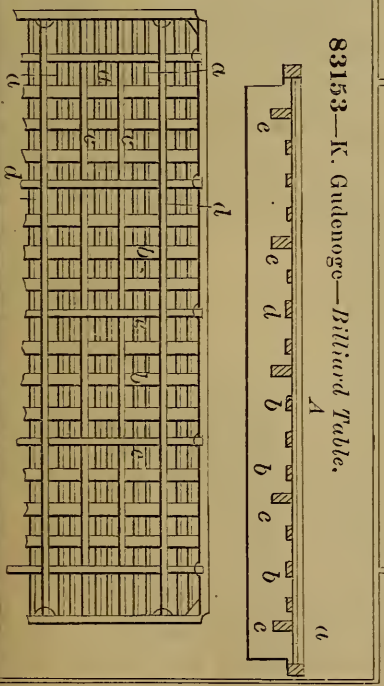
83151—J. M. Gitchell—*Seed Planter.*



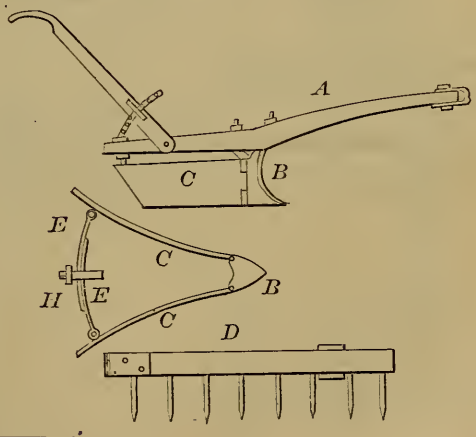
83152—Glasgow & Wood—*Manufacture of Shot.*



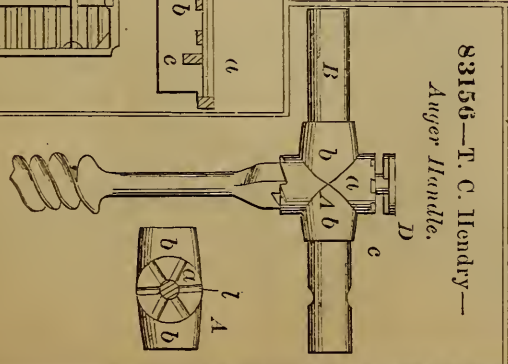
83153—K. Gudenoge—*Billiard Table.*



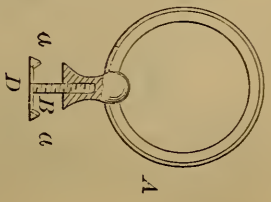
83154—J. Haessel—*Plow and Harrow.*



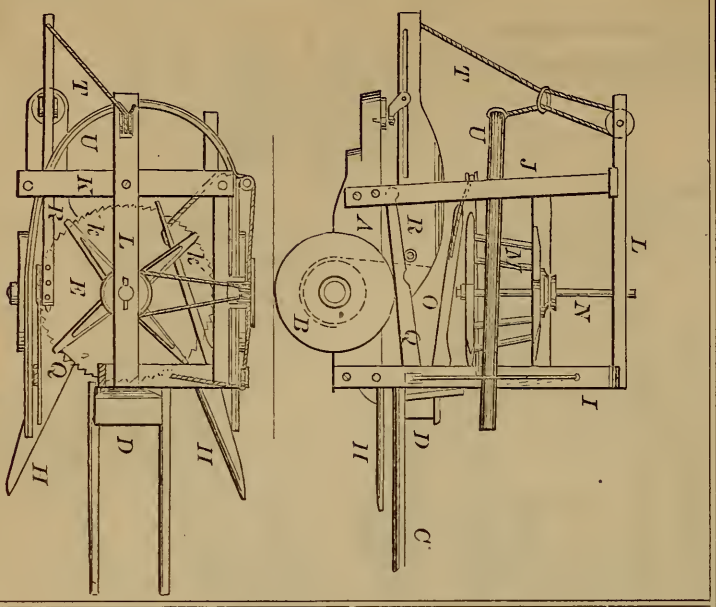
83156—T. C. Hendry—*Auger Handle.*



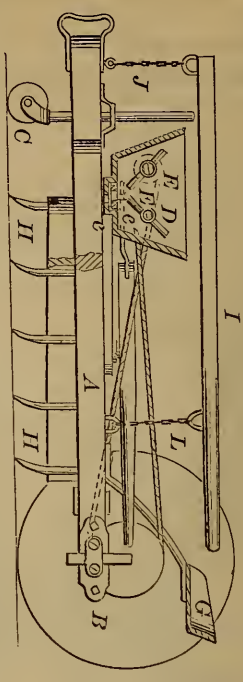
83157—A. L. Hill—*Fastening for Check Hooks.*



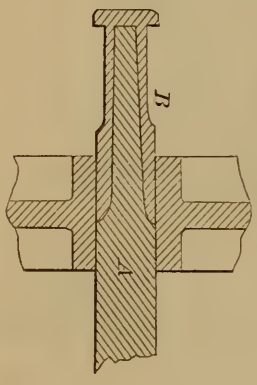
83155—J. D. Hampshire—*Corn Harvester.*



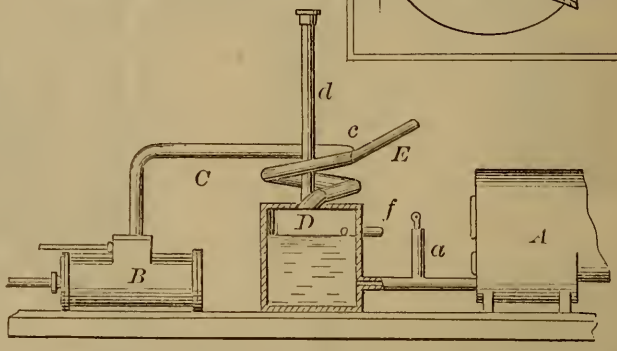
83158—F. A. Hill—*Seeding Machine.*



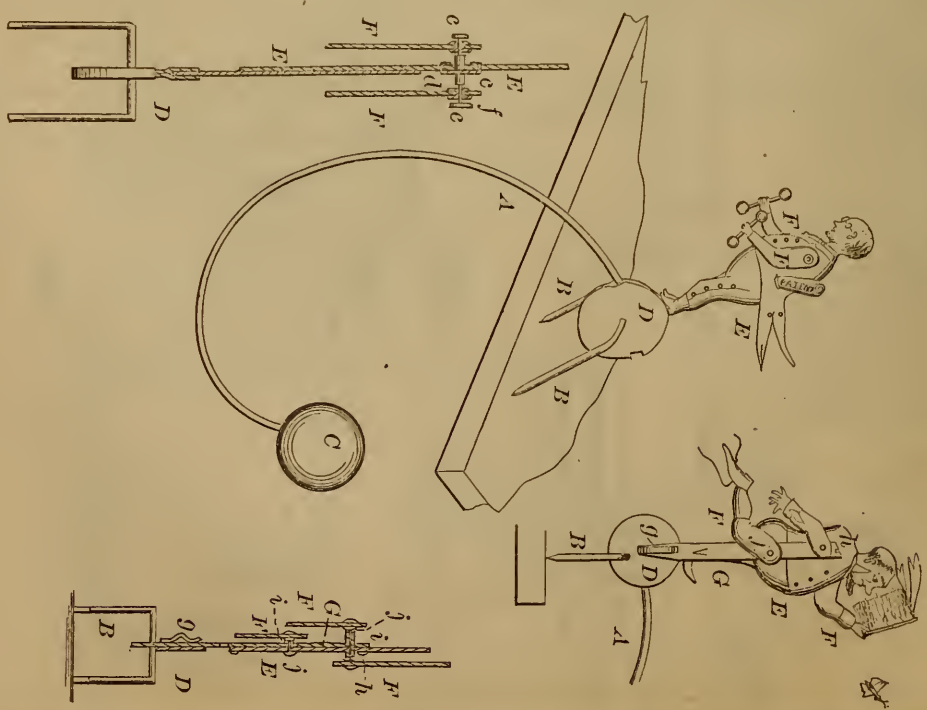
83159—G. H. Hoagland—*Railroad Axle.*



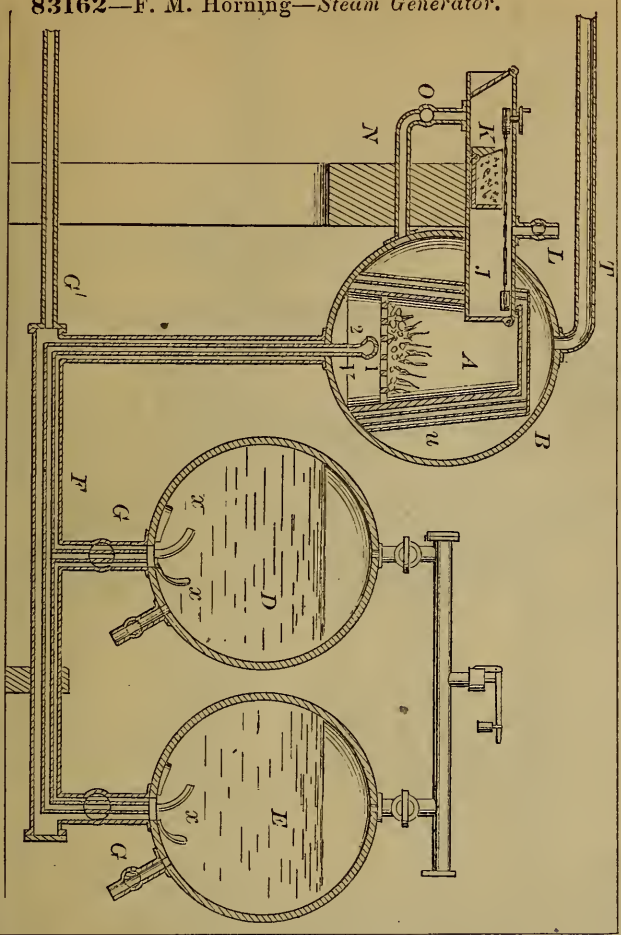
83161—B. A. Hopkins—*Feed Water Heater.*



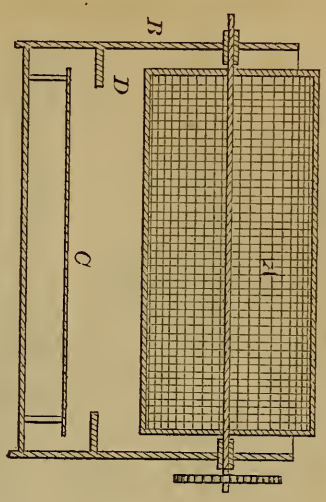
83160—J. L. Holt—*Toy.*



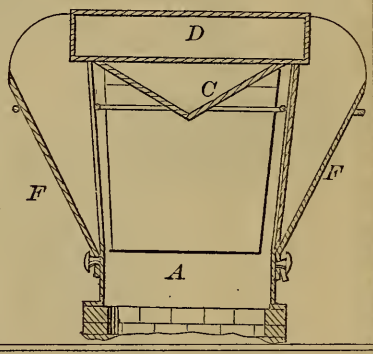
83162—F. M. Horning—*Steam Generator.*



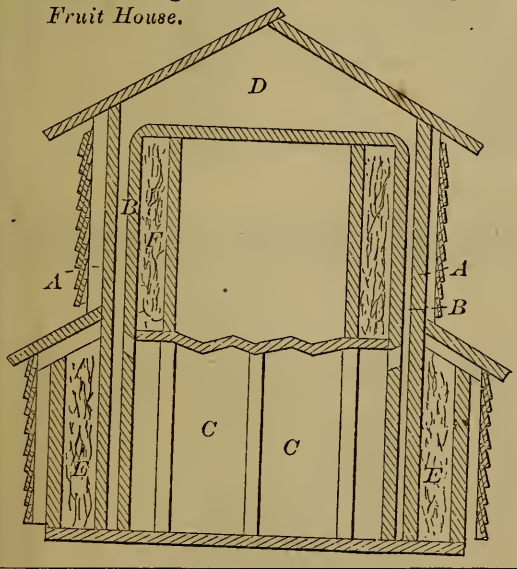
83165—A. Howland—*Paper Machine.*



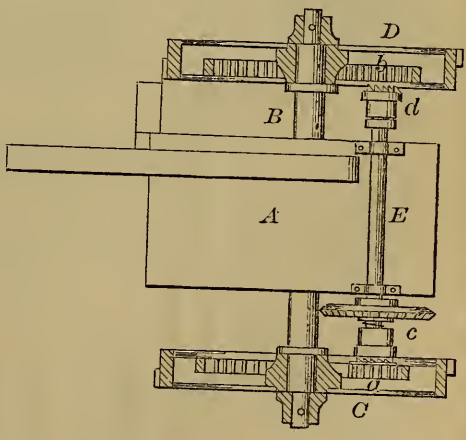
83166—B. Irrgang—*Chimney Cowl.*



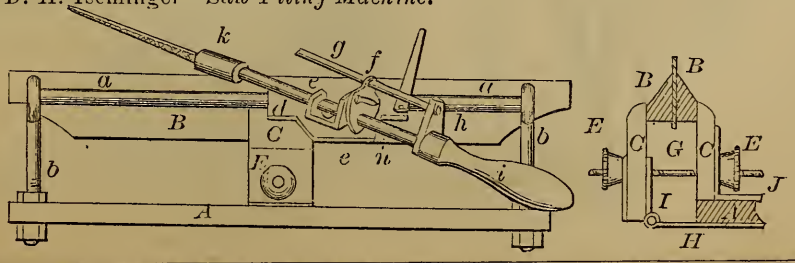
83163—Houghton & Rees—*Ventilating Fruit House.*



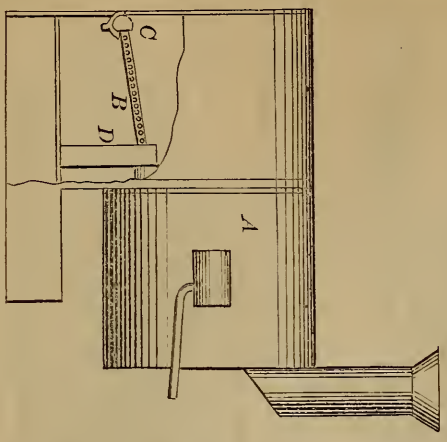
83164—H. Howe—*Harvester.*



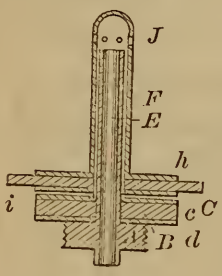
83168—D. H. Iseminger—*Saw Filing Machine.*



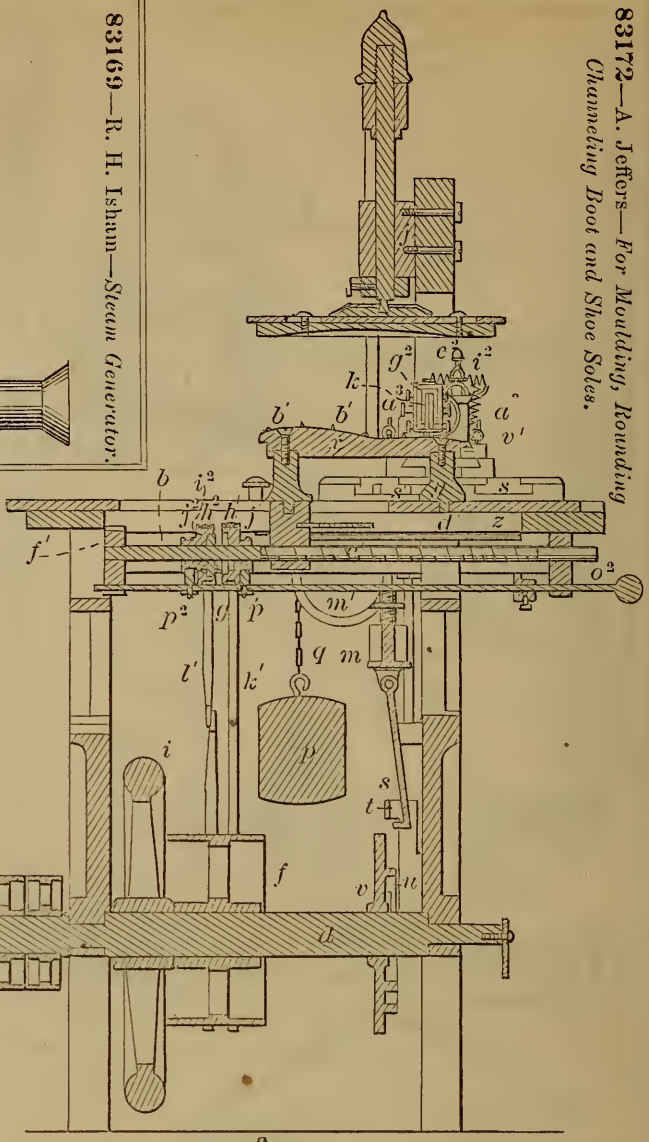
83169—R. H. Isham—*Steam Generator.*



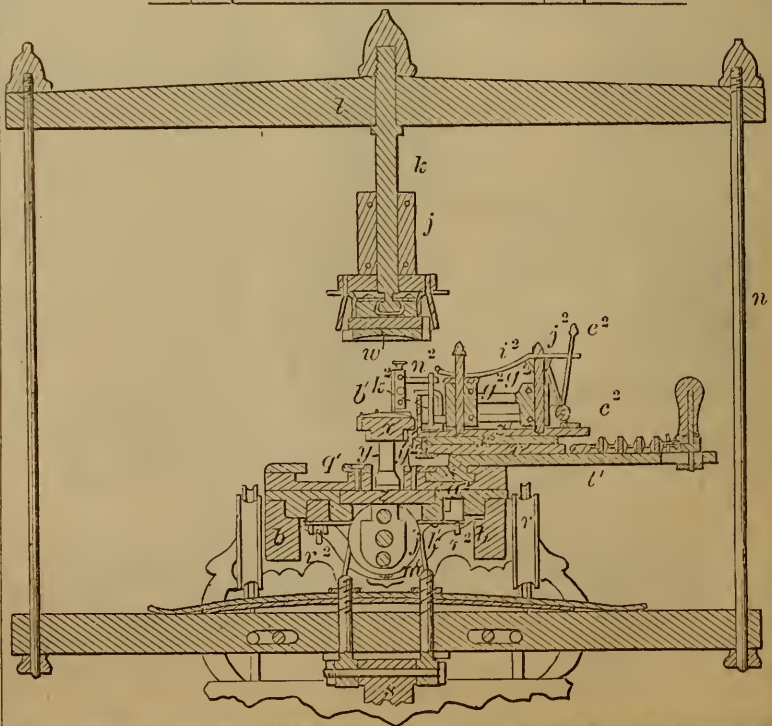
83171—W. W. Jacobs—*Vapor Burner.*



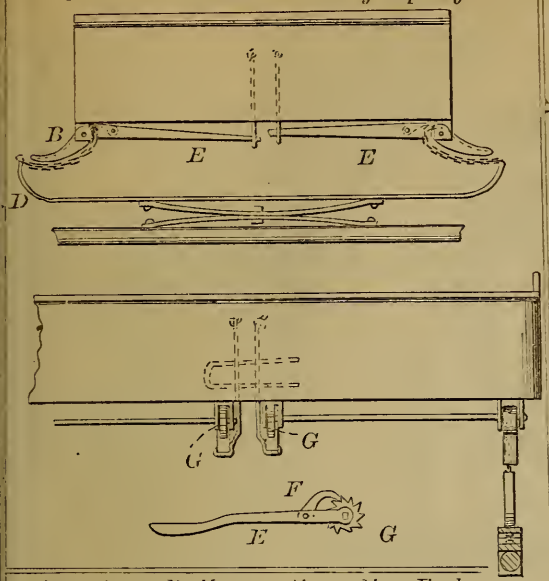
83172—A. Jeffers—*For Moulding, Rounding Channeling Boot and Shoe Soles.*



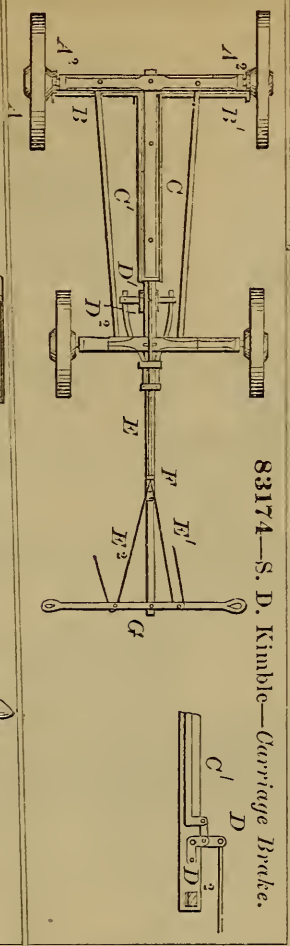
83173—W. H. Johnson—*Socket for Brush Handles.*



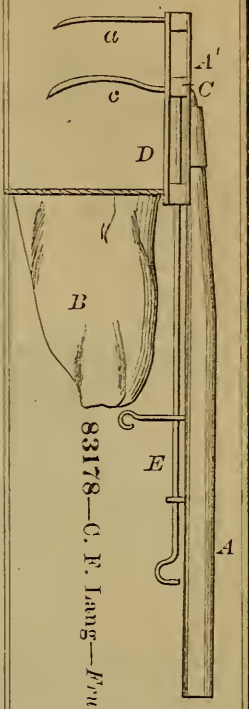
3170—J. Jackson—*Carriage Spring.*



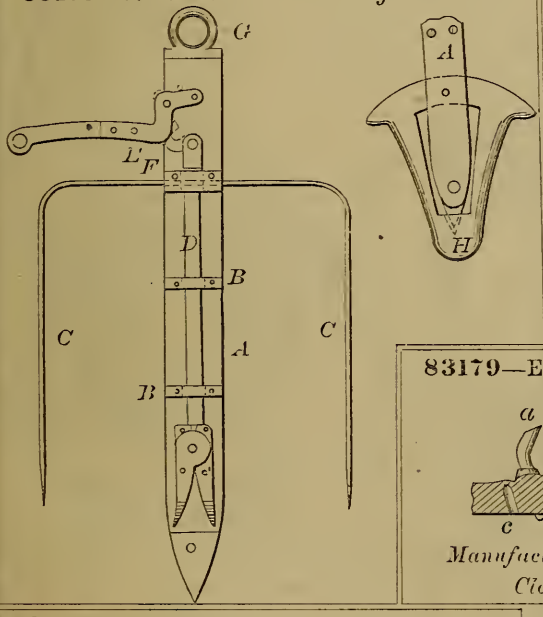
83174—S. D. Kimble—*Carriage Brake.*



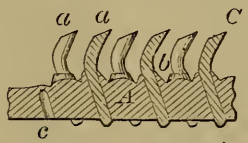
83178—C. F. Lang—*Fruit Gatherer.*



83[illegible]—J. B. Kurtz—*Horse Hay Fork.*

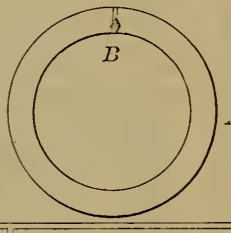


83179—E. S. Lawrence—

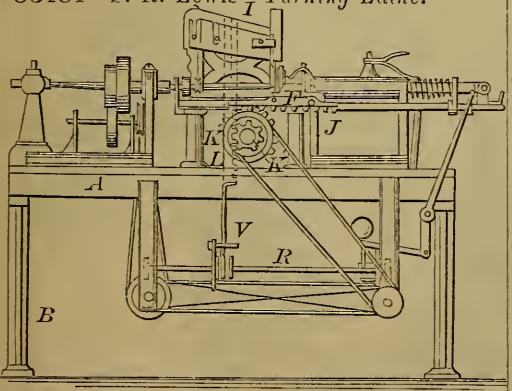


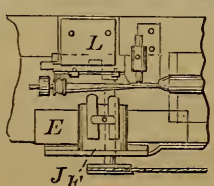
Manufacture of Card Clothing.

83177—I. Lamplugh—*Welding Tire.*

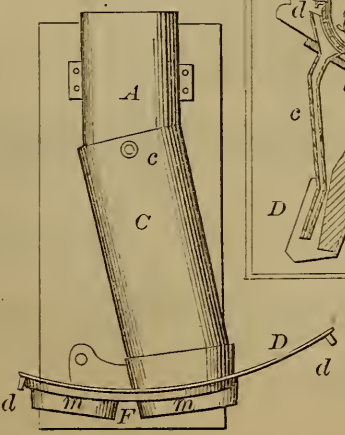


83181—S. R. Lewis—*Turning Lathe.*

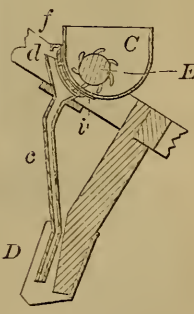




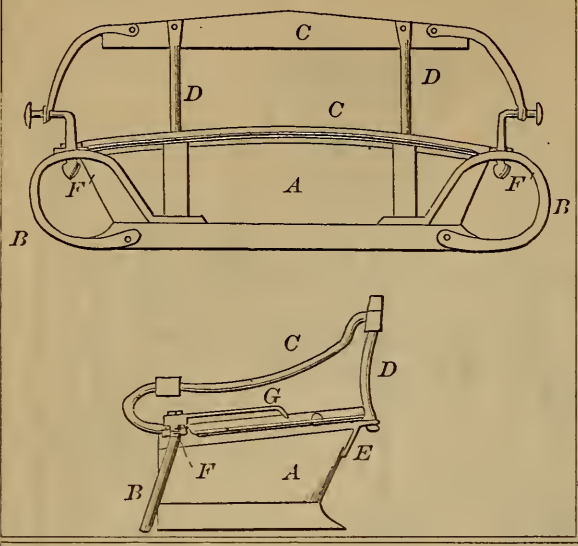
83176—Laird & Stone—*Rain Water Cut-off.*



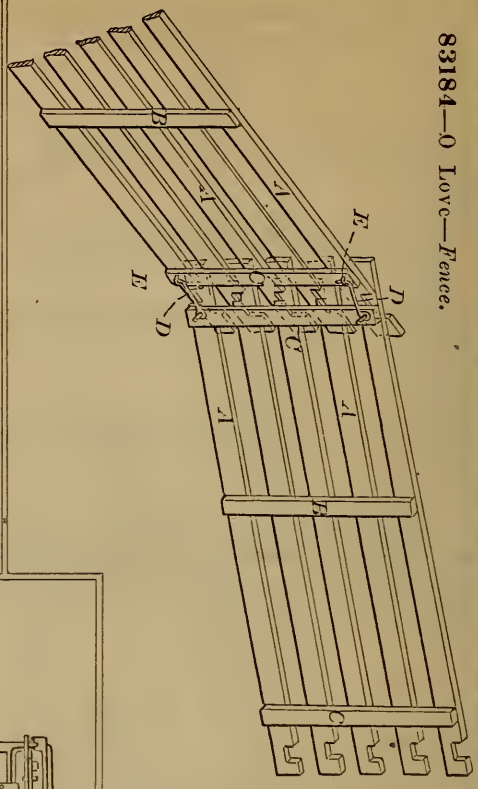
83180—Ledlie & Gray—*Seed Drill.*



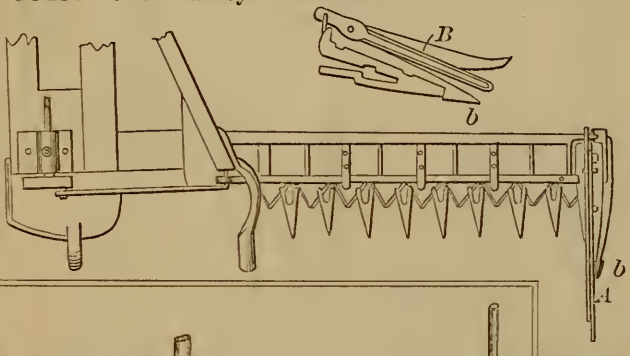
83183—T. Lodge—*Shifting Buggy Top.*



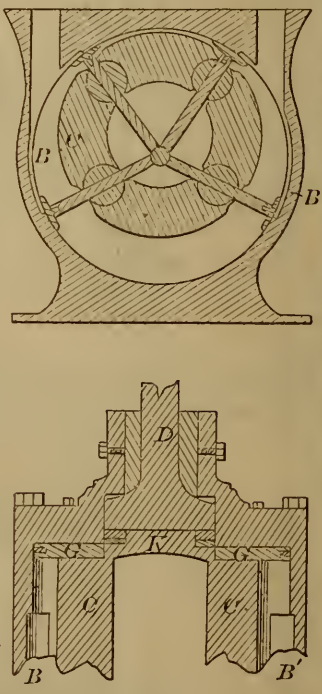
83184—O. Love—*Fence.*



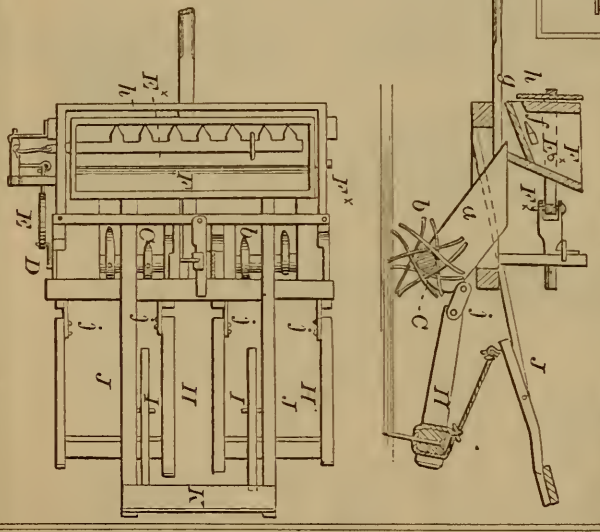
83185—J. J. Lurvey—*Harvester.*



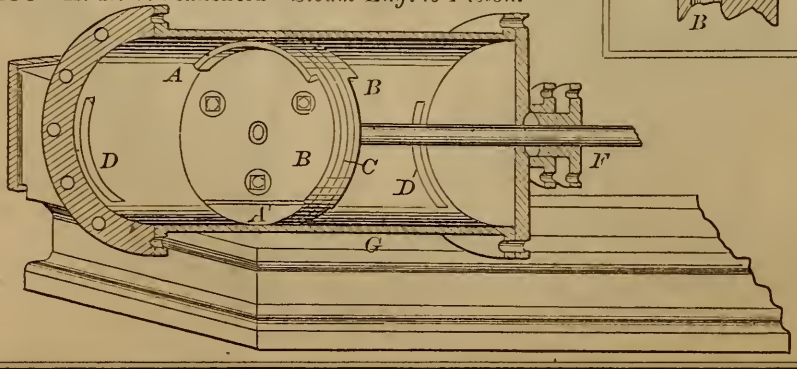
83186—W. J. Lyman—*Steam Engine.*



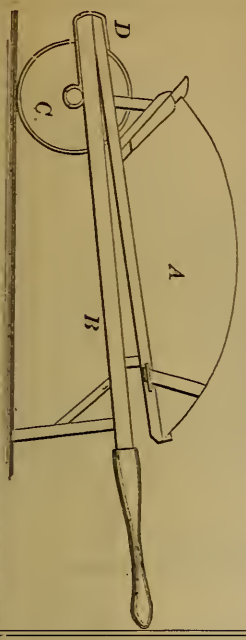
83187—S. Mahurin—*Cultivator.*



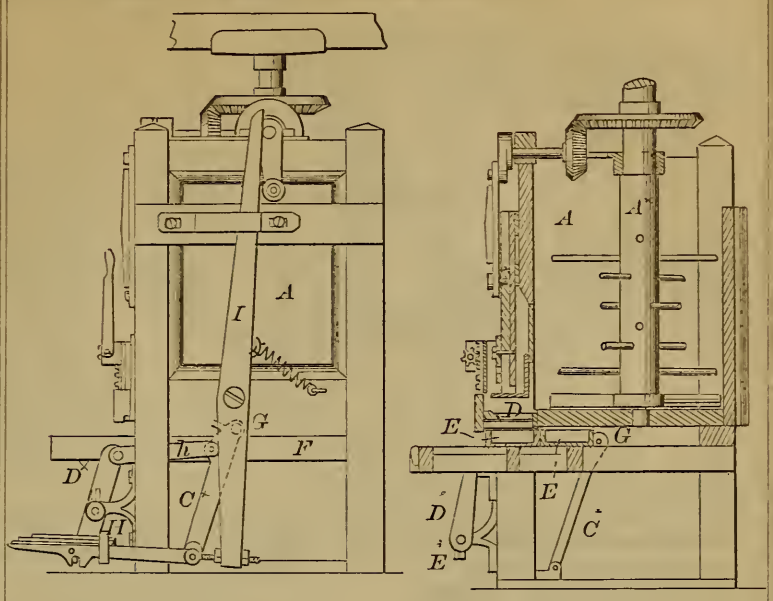
83188—H. N. J. Mansfield—*Steam Engine Piston.*



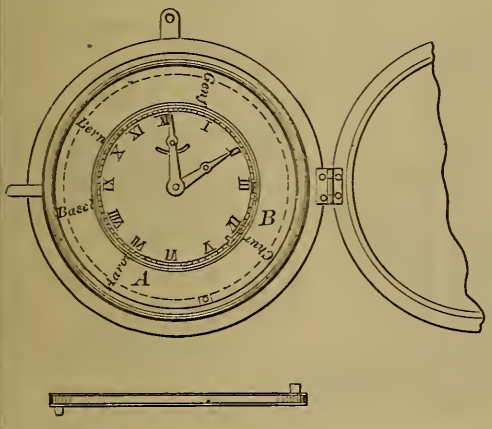
83189—E. B. Marshall—*Wheelbarrow.*



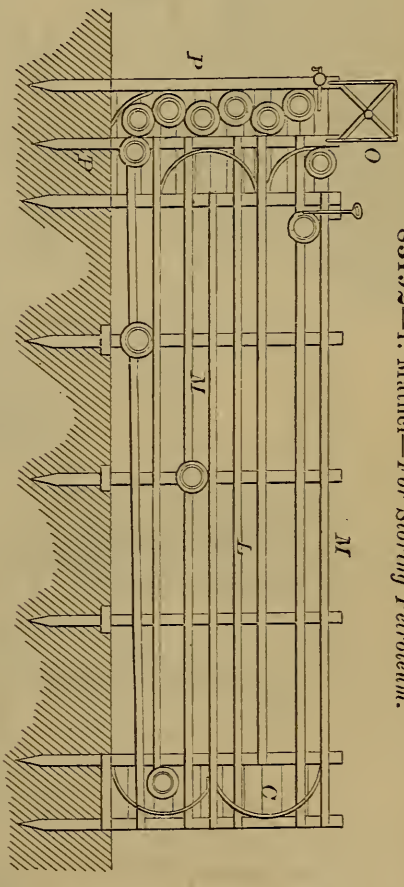
83191—J. Martin—*Brick Machine.*



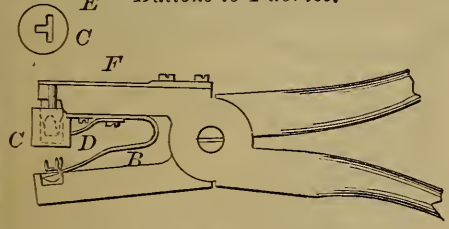
83190—E. B. Marshall—*Station Indicator.*



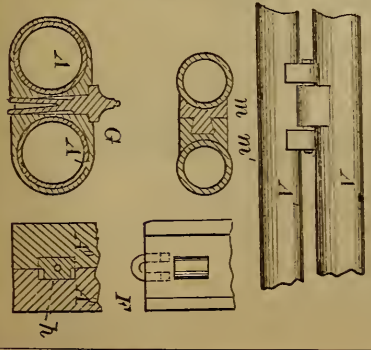
83192—I. Mathei—*For Storing Petroleum.*



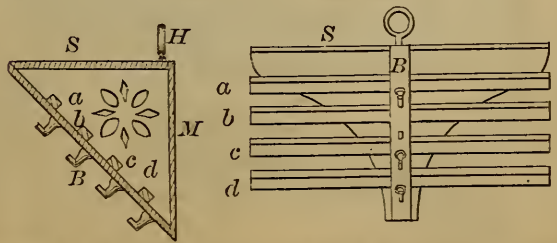
83193—H. Mauch—*For Attaching Buttons to Fabrics.*



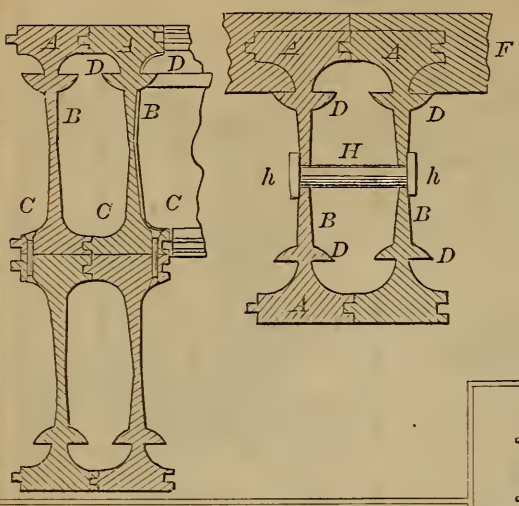
83194—E. Maynard—*Fire Arm.*



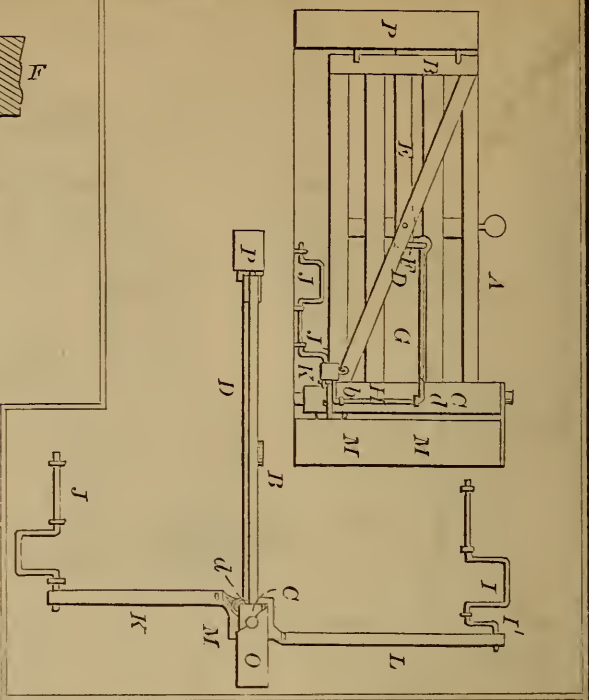
83195—W. A. Middleton—*Bracket and Rack.*



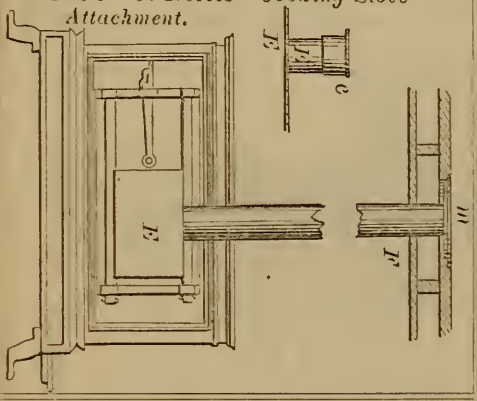
83196—J. Montgomery—*Beam and Girder.*



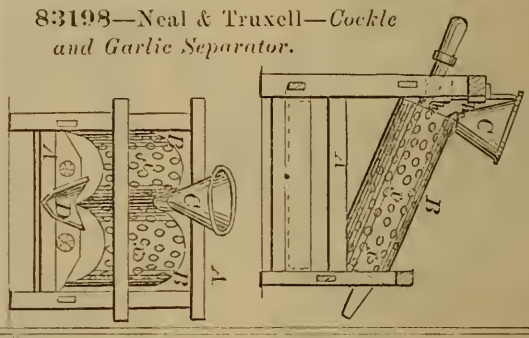
83197—P. Mougey—*Farm Gate.*



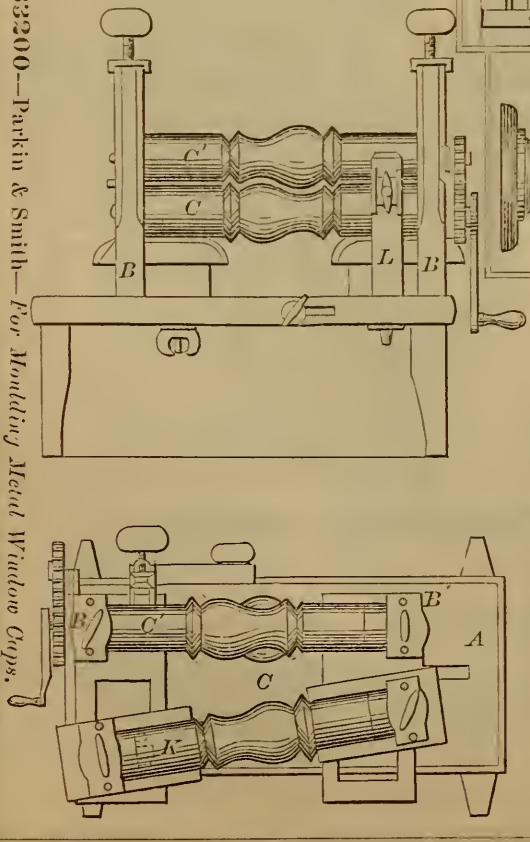
83199—J. Norris—*Cooking Stove Attachment.*



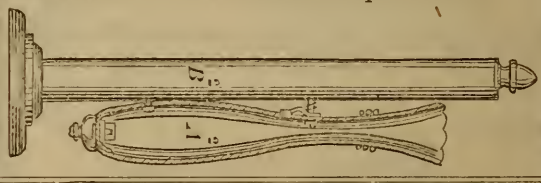
83198—Neal & Truxell—*Cockle and Garlic Separator.*



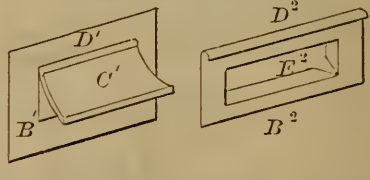
83200—Parkin & Smith—*For Moulding Metal Window Cops.*



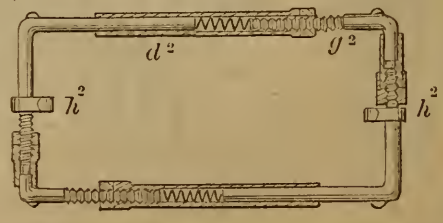
83203—L. J. Parsons—*Whip Socket.*



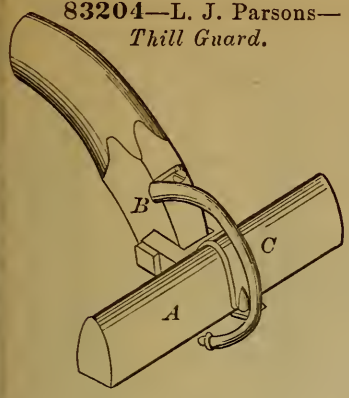
83201—L. J. Parsons—*Binding the Edges of Rein Holders.*



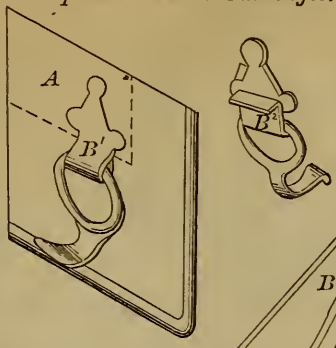
83202—L. J. Parsons—*Mosquito Bar Frame.*



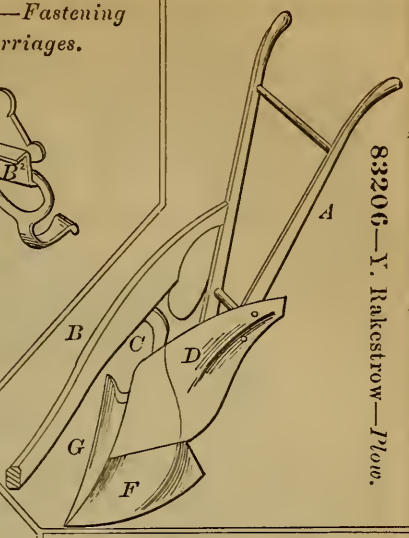
83204—L. J. Parsons—*Thill Guard.*



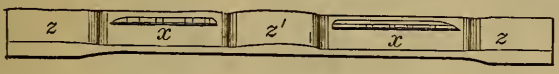
83205—L. J. Parsons—*Fastening Apron Hooks to Carriages.*

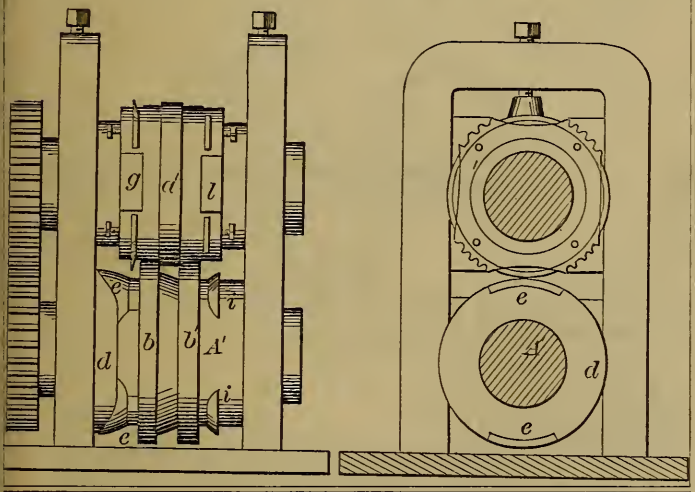


83206—Y. Rakestraw—*Plow.*

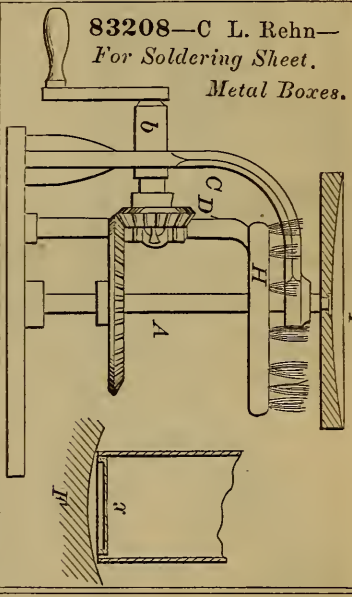


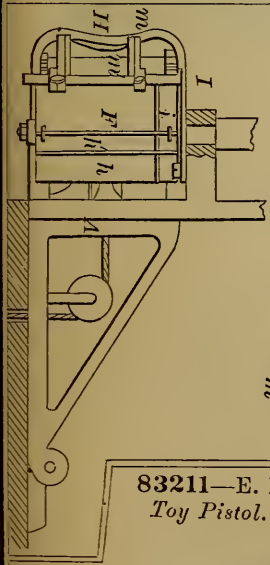
83207—A. Reese—*Rolling Horse Shoe Blank.*

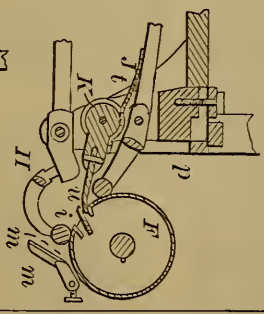


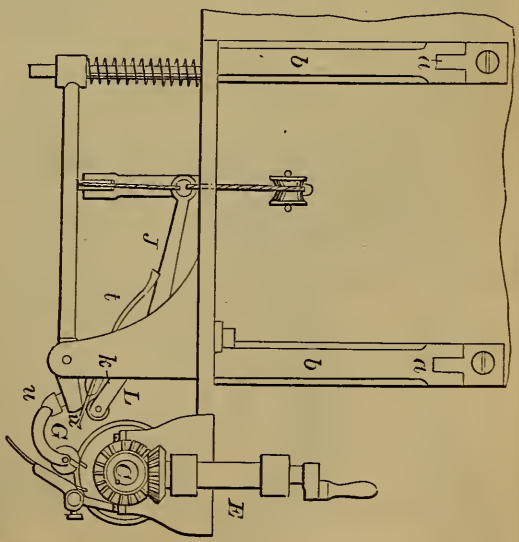


83208—C L. Rehn—*For Soldering Sheet. Metal Boxes.*



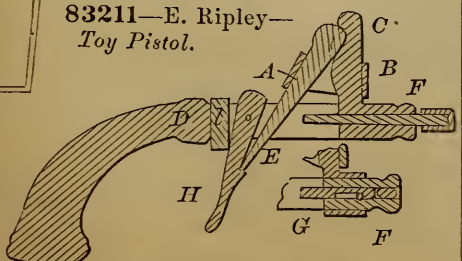




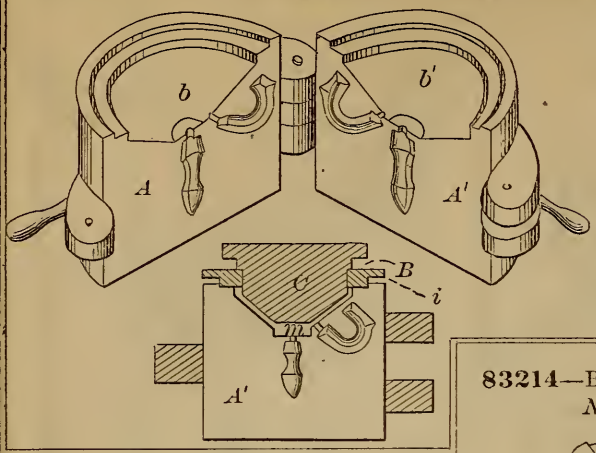


83209—C. L. Rehn—*For Making Metal Boxes.*

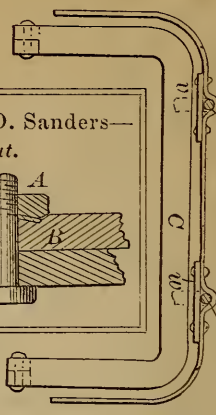
83211—E. Ripley—*Toy Pistol.*



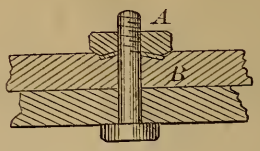
83210—D. C. Ripley—*Manufacture of Glass Ware.*



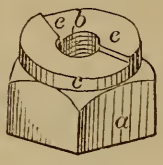
83212—W. Roemer—*Traveling Bag.*

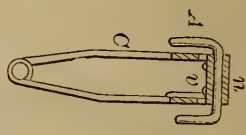


83213—B. D. Sanders—*Nut.*

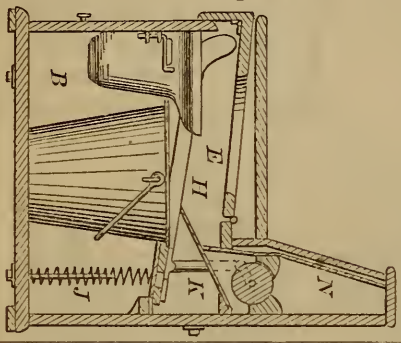


83214—B. D. Sanders—*Nut.*

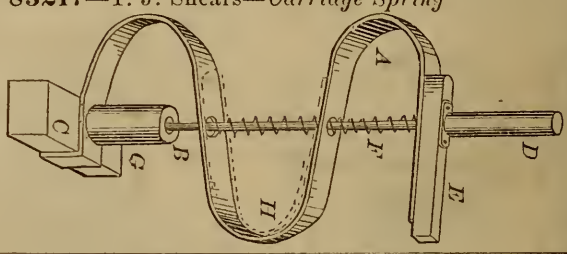




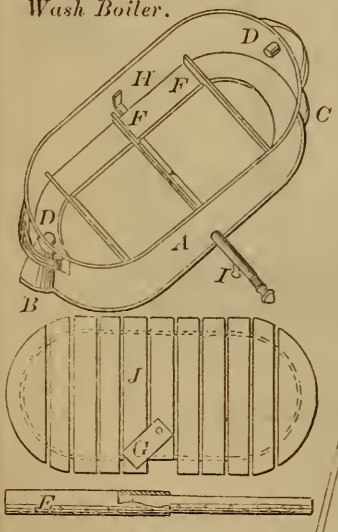
83215—D. Schilling—*Water Closet.*



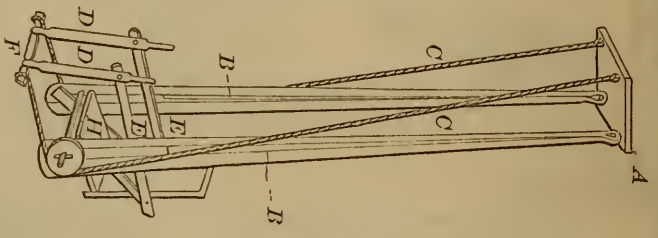
83217—T. J. Shears—*Carriage Spring*



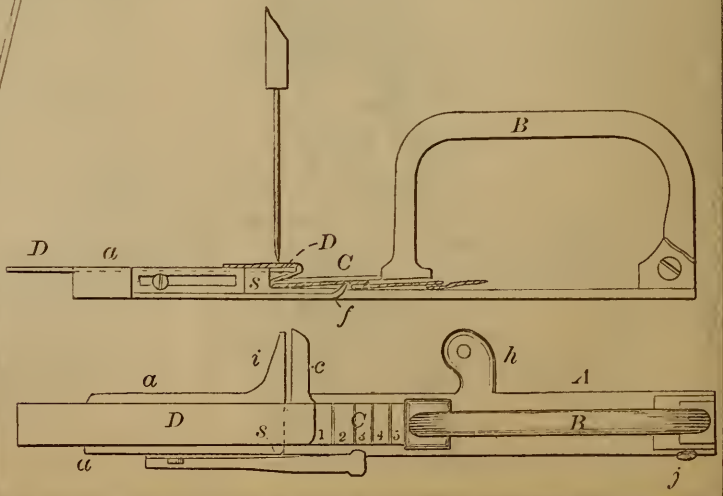
83218—Shepler & Irwin—*Wash Boiler.*



83216—B. F. Shaffer—*Swing.*

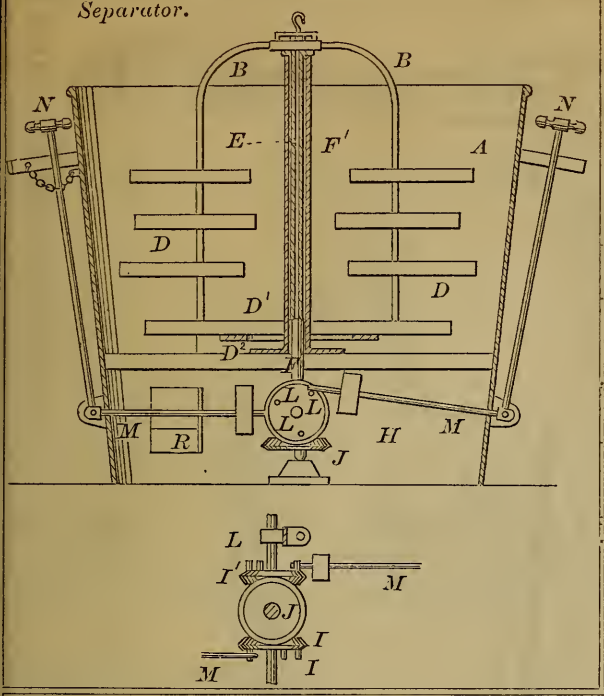


83219—R. H. St. John—*Tucking Device.*

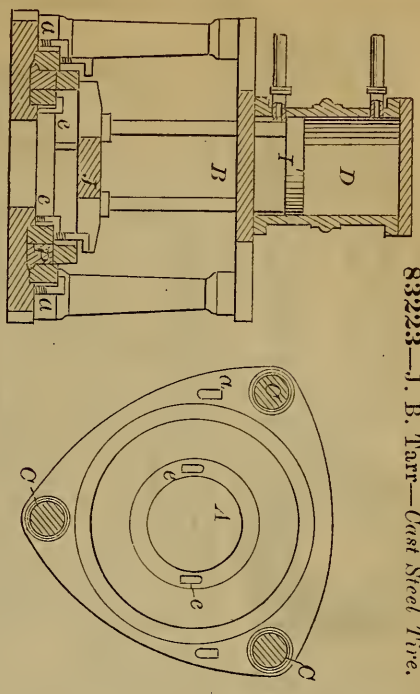


83220—Stone & Chamberlin—*Bird Trap.*

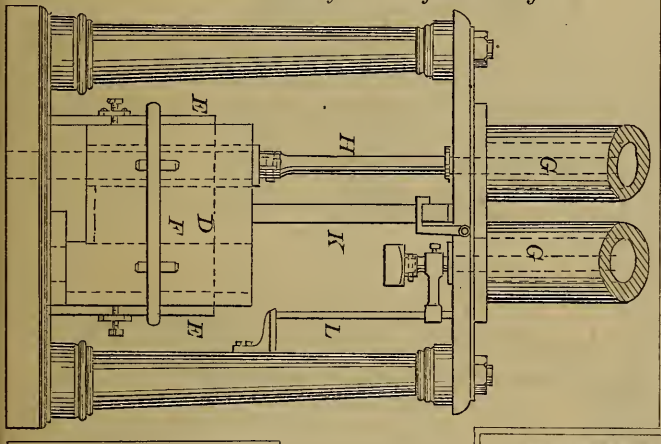
83221—Symons, Harry & Stephens—*Ore Separator.*

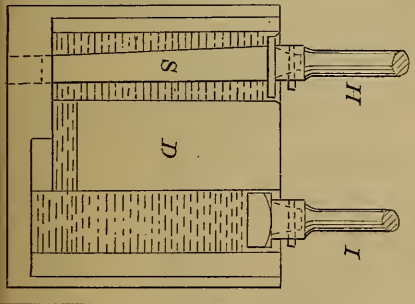


83223—J. B. Tarr—*Cast Steel Tire.*

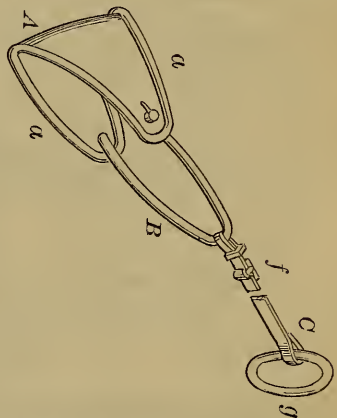


83222—J. B. Tarr—*Manufacture of Steel Ingots.*

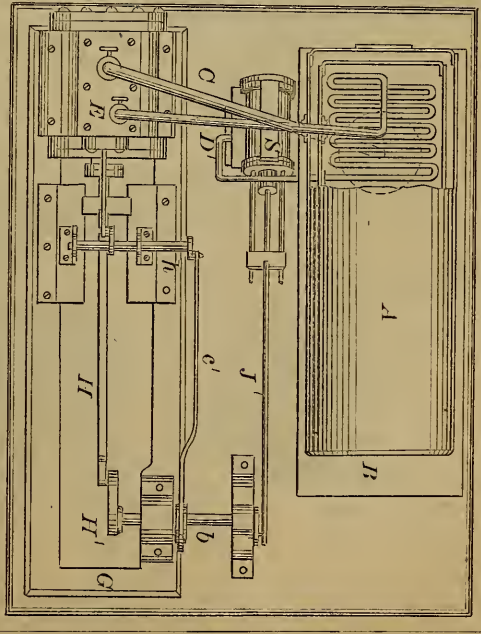




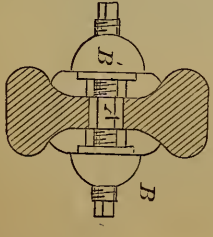
83227—M. Warne—*Head Rest.*



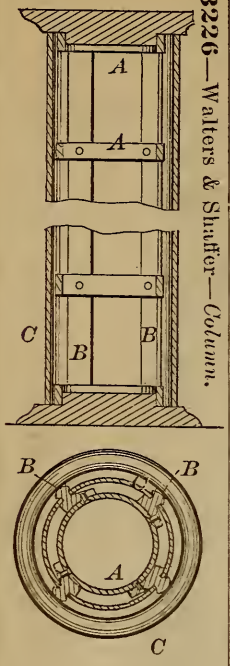
83224—J. B. Tarr—*Steam Engine.*



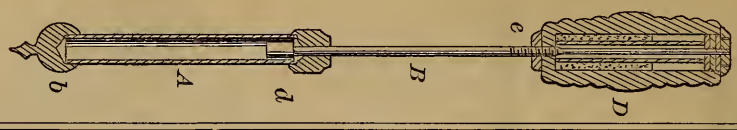
83225—F. Tudor—*Screw Bolt.*



83226—Walters & Shaffer—*Column.*

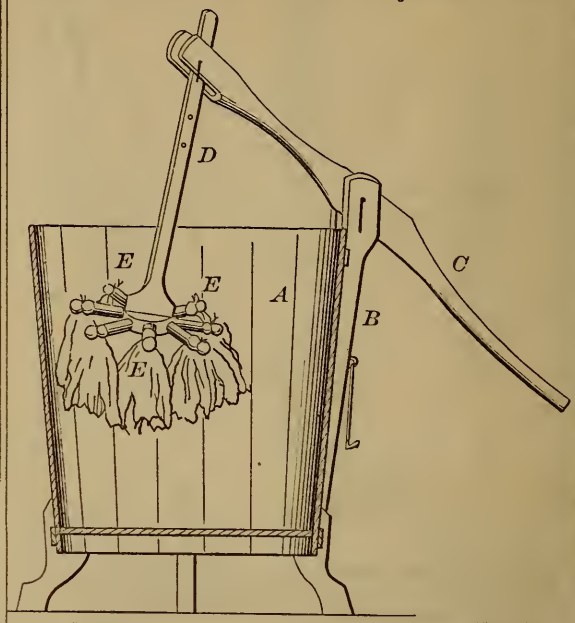


83228—M. Warne—*Policeman's Mace.*

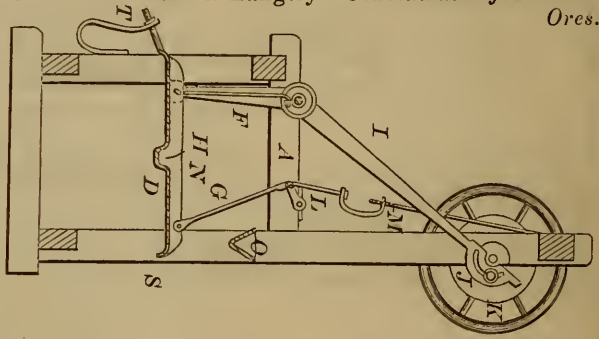


83229—M. Warne—*Sabot.*

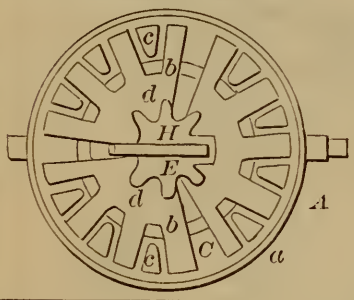
83230—G. R Weber—*Washing Machine.*



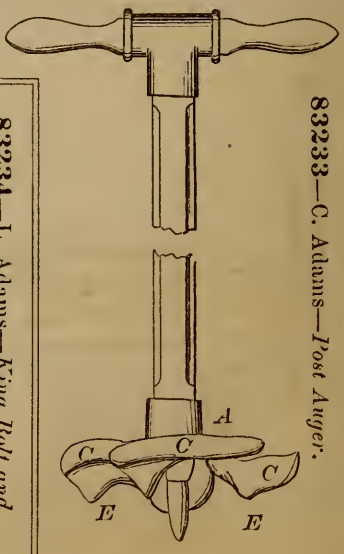
83231—Weston & Langtry—*Concentrator for Dressing Ores.*



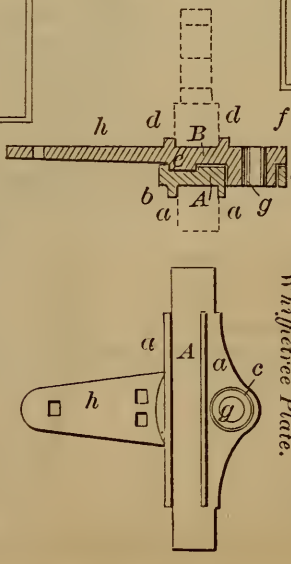
83232—G. D. Woodworth—*Stove Grate.*



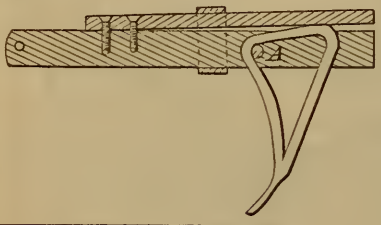
83233—C. Adams—*Post Auger.*



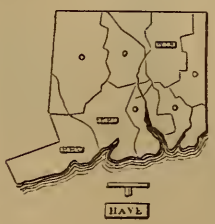
83234—L. Adams—*King Bolt and Whiffletree Plate.*



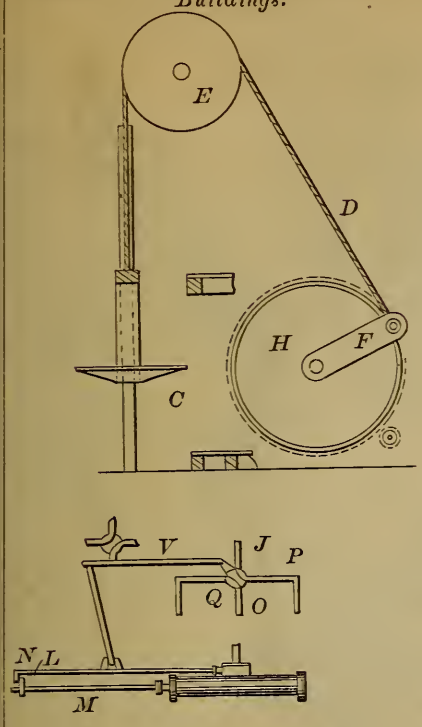
83235—C. Alvord—*Cultivator.*



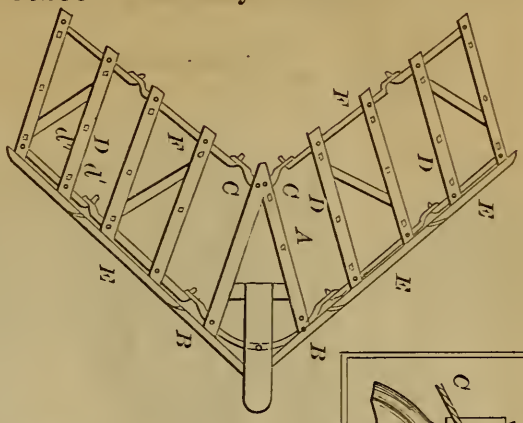
83236—E. F. Anderson—*Map.*



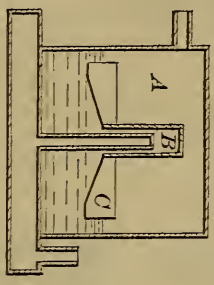
83237—J. S. Baldwin—*Elevator for Buildings.*



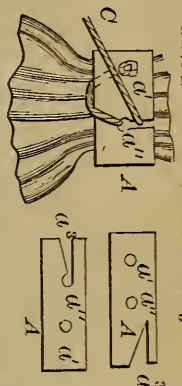
83238—W. H. Barry—*Harrow.*



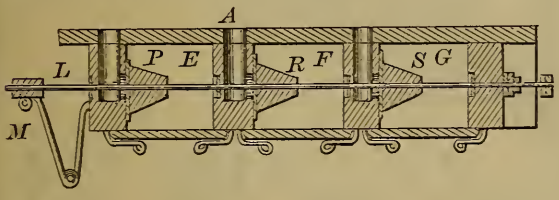
83239—J. A. Bassett—*Manufacture of Illuminating Gas.*



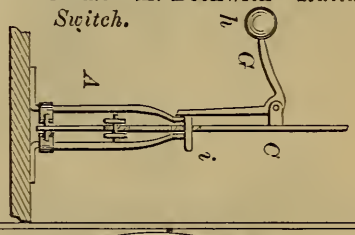
83240—J. W. Bates—*Bag Tie.*

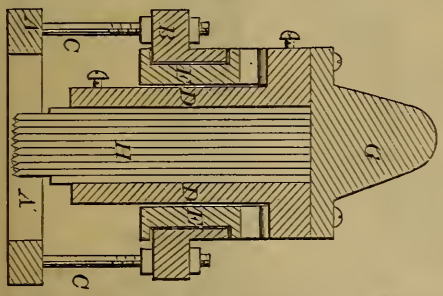


83241—M. Baumgarten, Jr.—*Organ Valve.*

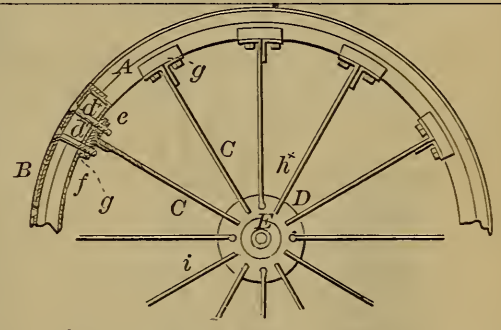


83242—H. Beckwith—*Railway Switch.*



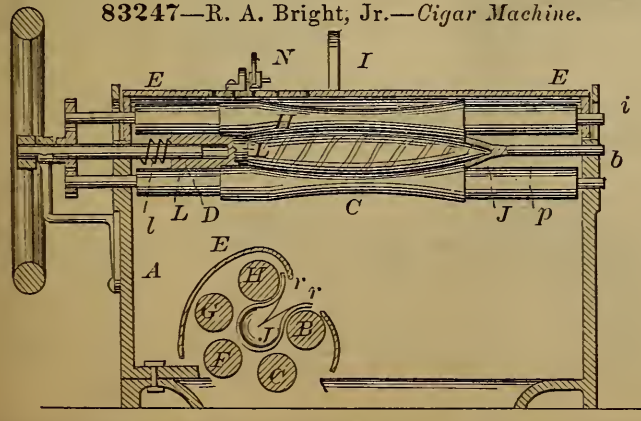


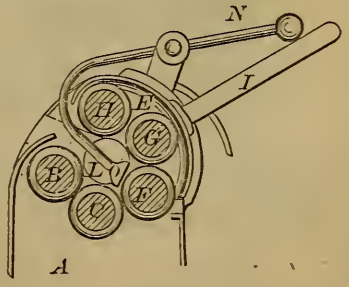
83243—W. Bold—*For Dressing Millstones.*



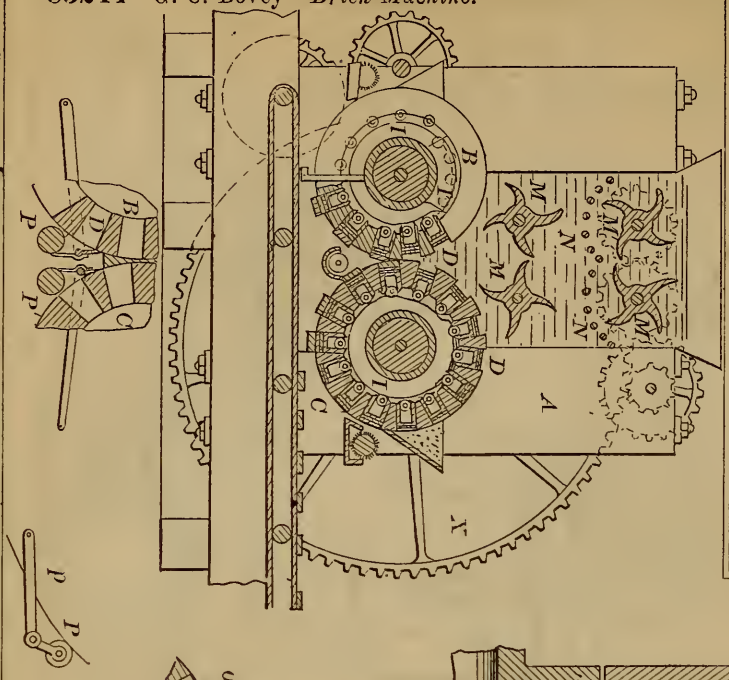
83245—R. J. Bowman—*Wheel.*

83247—R. A. Bright, Jr.—*Cigar Machine.*

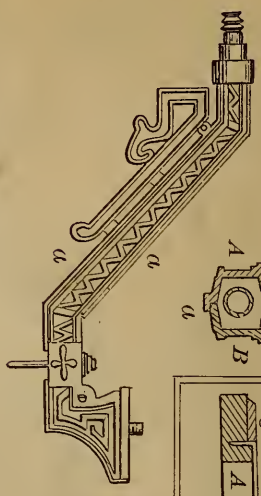




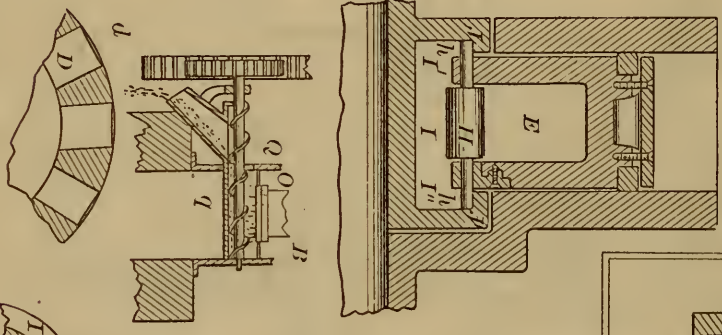
83244—G. C. Bovey—*Brick Machine.*



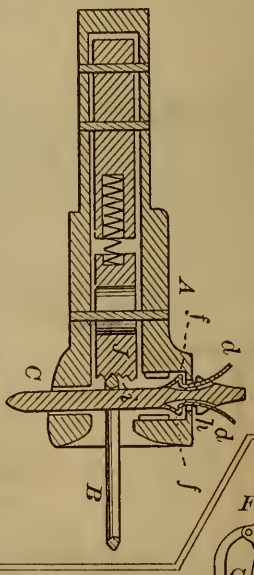
83246—Bradley & Evarts—*Gas Fixture.*



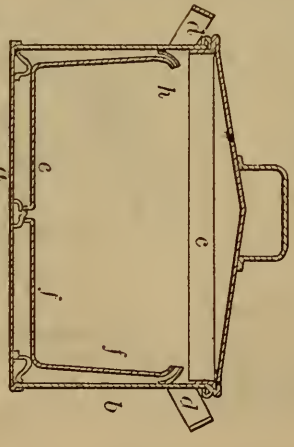
83250—H. Buchter—*Chair Seat.*



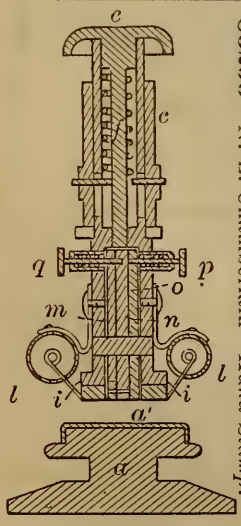
83252—W. E. Bush—*Car Coupling.*

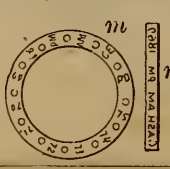


83251—J. H. Burtis—*Wash Boiler.*

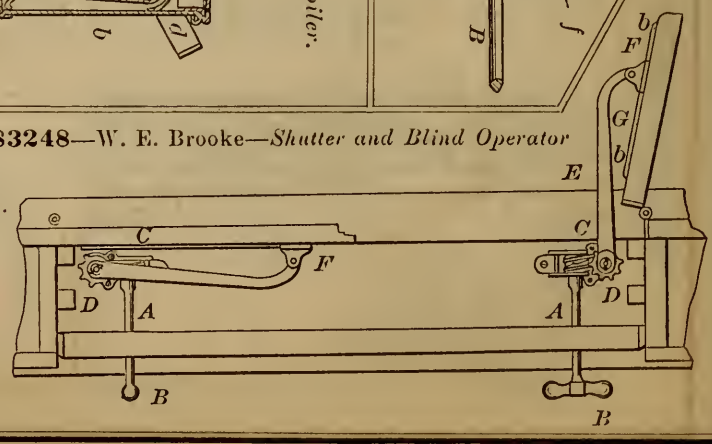


83253—N. L. Chamberlain—*Hand Stamp.*

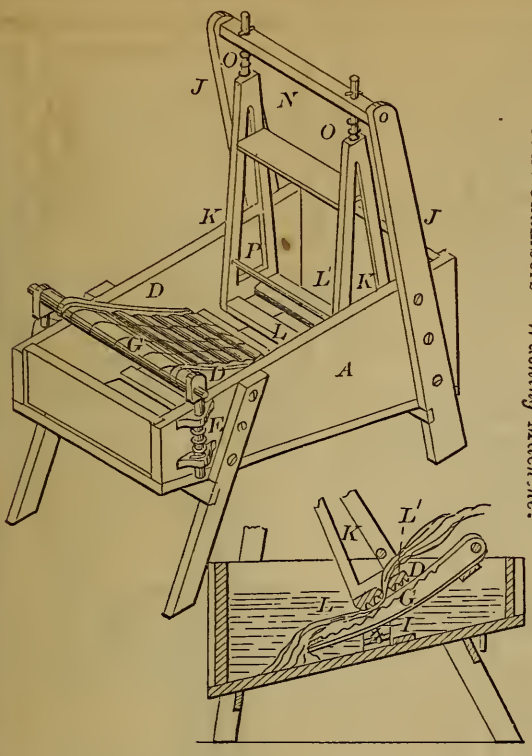




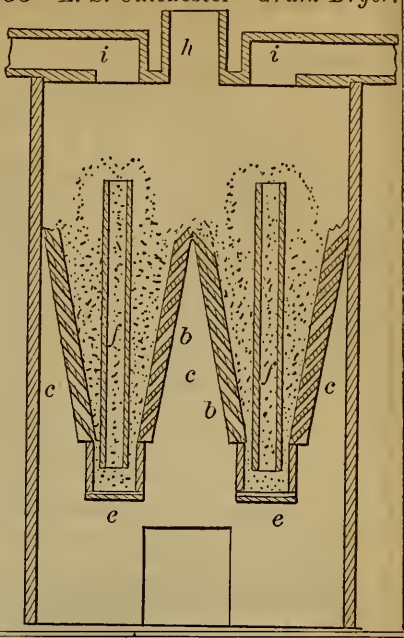
83248—W. E. Brooke—*Shutter and Blind Operator*



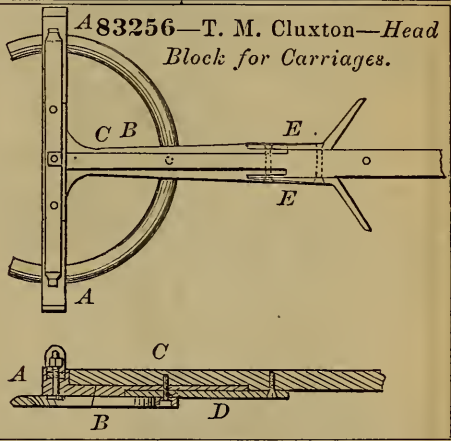
83254—C. F. Chambers—*Washing Machine.*



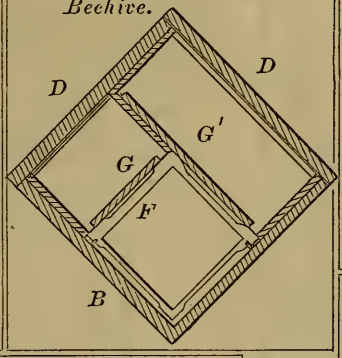
83255—L. S. Chichester—*Grain Dryer.*



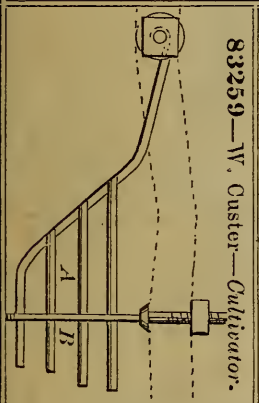
83256—T. M. Cluxton—*Head Block for Carriages.*



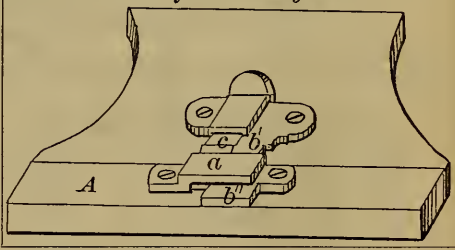
83257—A. V. Conklin—*Beehive.*



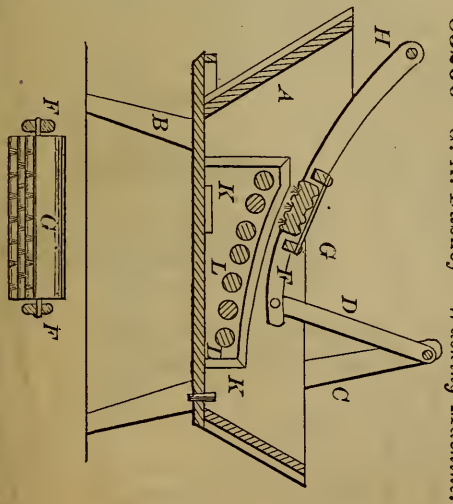
83259—W. Custer—*Cultivator.*



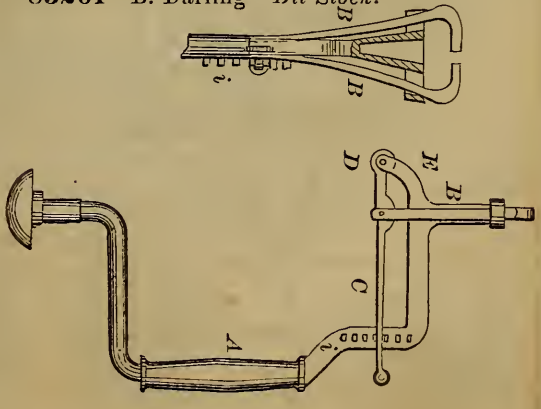
83258—W. Conway—*Seat Lock for Carriages.*



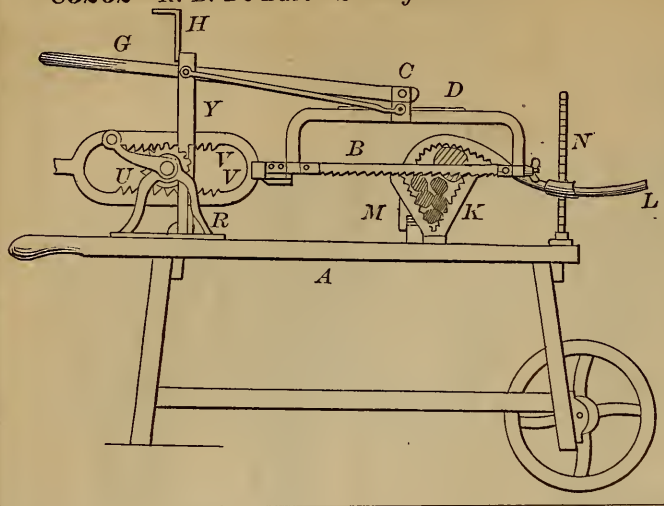
83260—G. A. Dabney—*Washing Machine.*



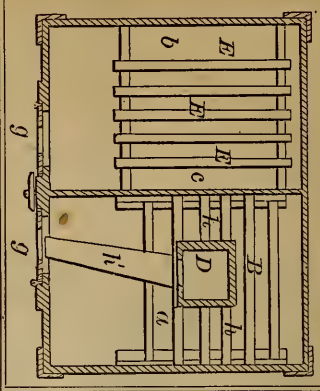
83261—B. Darling—*Bit Stock.*



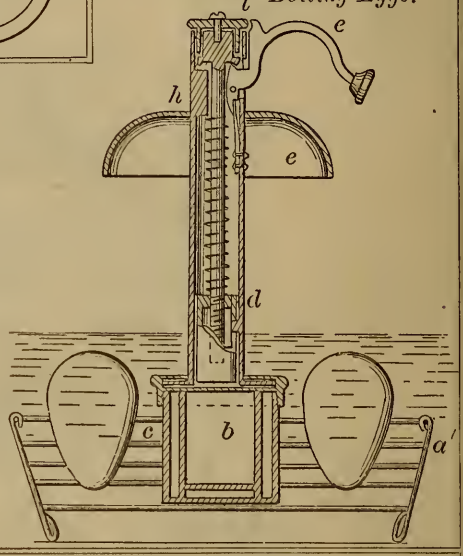
83262—R. B. De Bare—*Sawing Machine.*



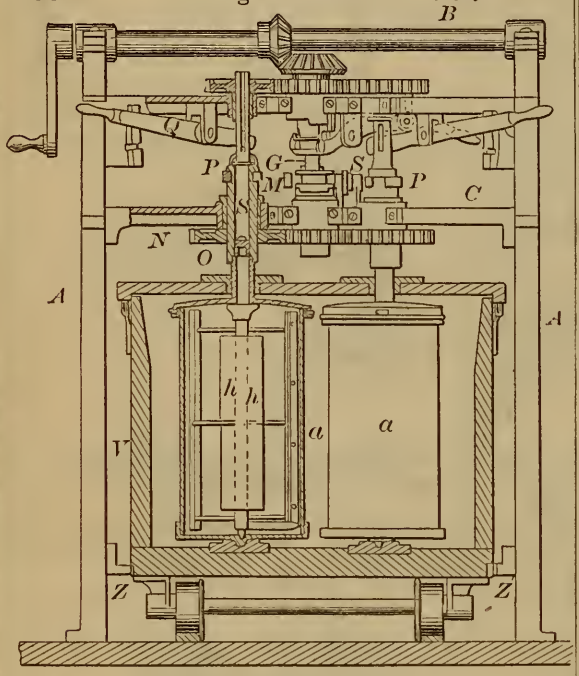
83263—C. Docker—*Bee House.*



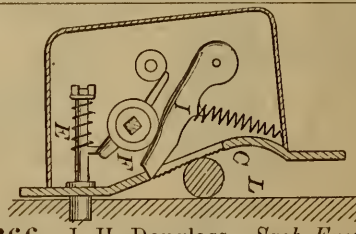
83264—I. Dinock—*For Boiling Eggs.*

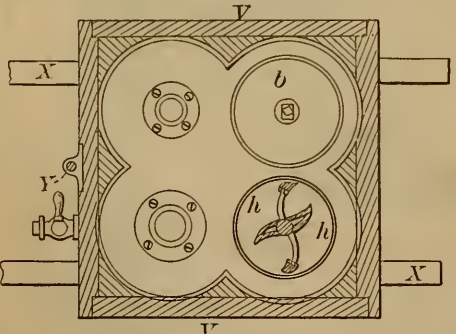


83265—J. Dooling—*Ice Cream Freezer.*

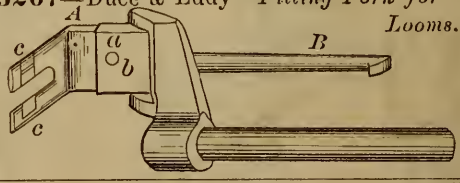


83266—J. H. Douglass—*Sash Fastener.*

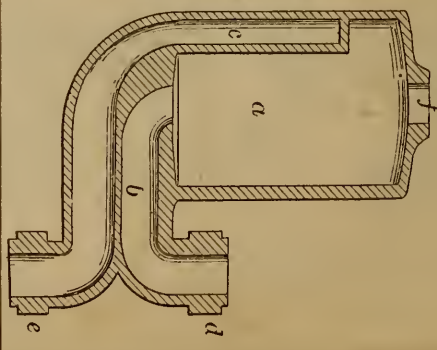




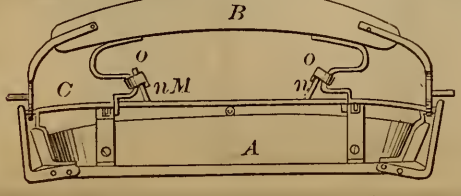
83267—Duce & Eddy—*Filling Fork for Looms.*



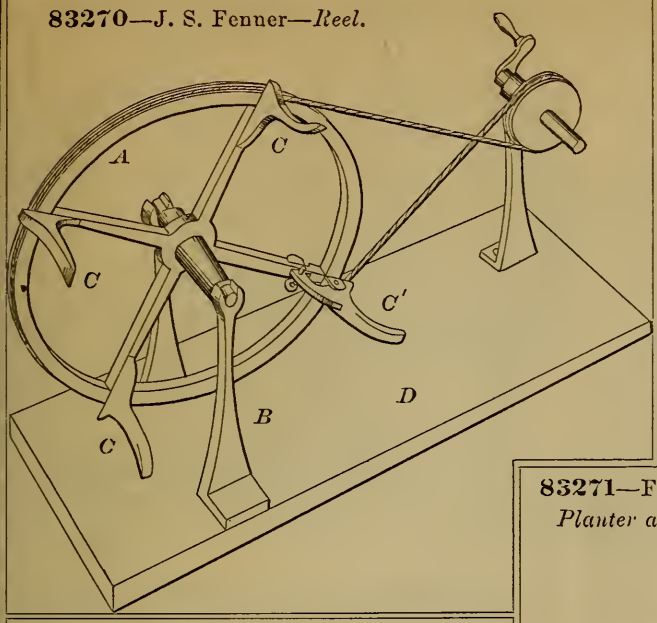
83268—Dutton & Maguire—*Water Charger for Pumps.*



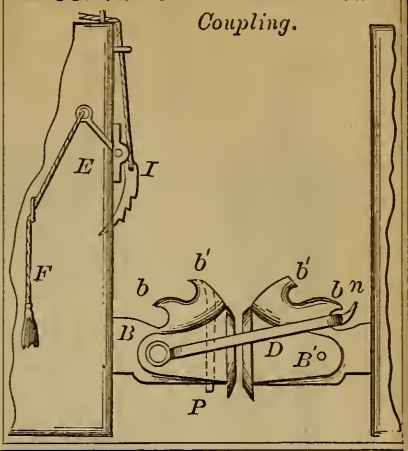
83269—D. S. Early—*Buggy Top Fastening.*



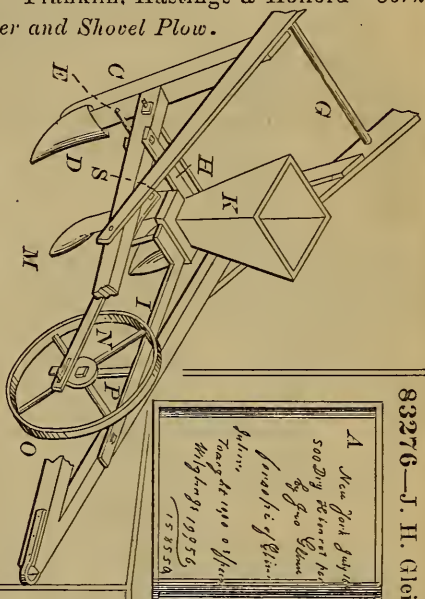
83270—J. S. Fenner—*Reel.*



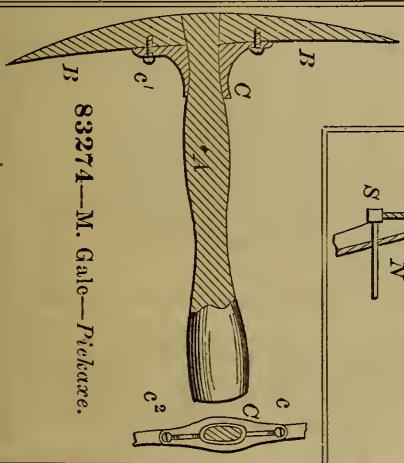
83272—J. P. Freeman—*Car Coupling.*

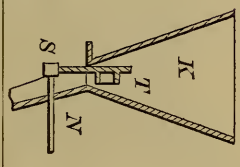


83271—Franklin, Hastings & Holford—*Corn Planter and Shovel Plow.*

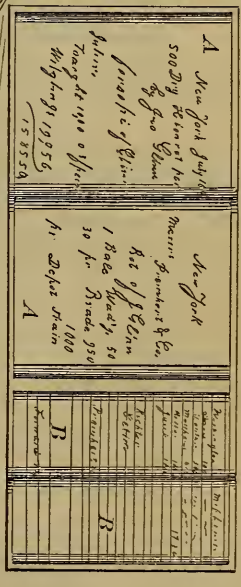


83274—M. Galo—*Pickaxe.*

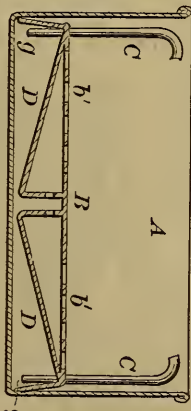




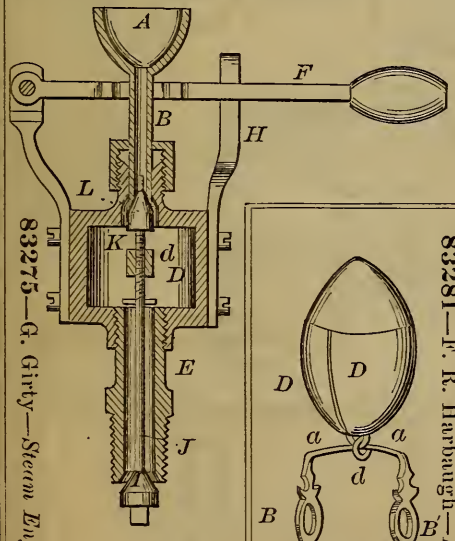
83276—J. H. Gleim—*Binding Mercantile Books.*



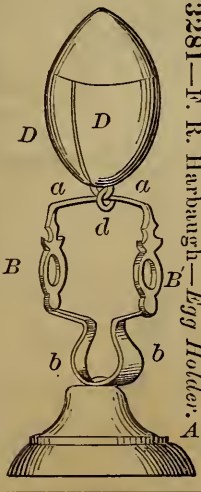
83278—S. A. Goodwin—*Wash Boiler.*



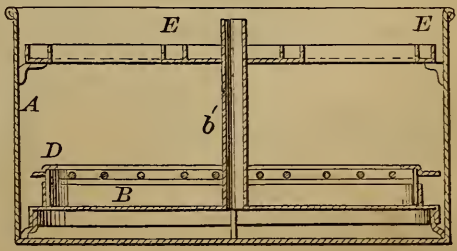
83275—G. Girty—*Steam Engine Lubricator.*



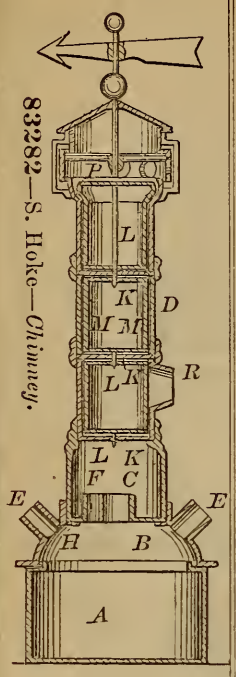
83281—F. R. Harbaugh—*Egg Holder.*



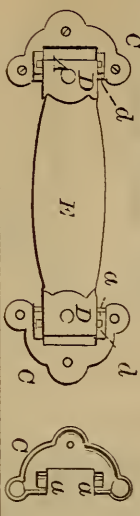
83277—S. A. Goodwin—*Wash Boiler.*



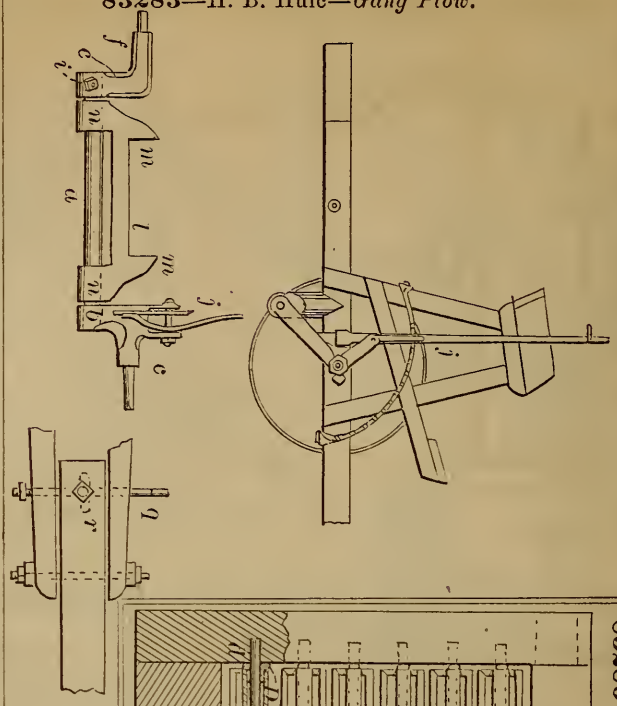
83282—S. Hoke—*Chimney.*



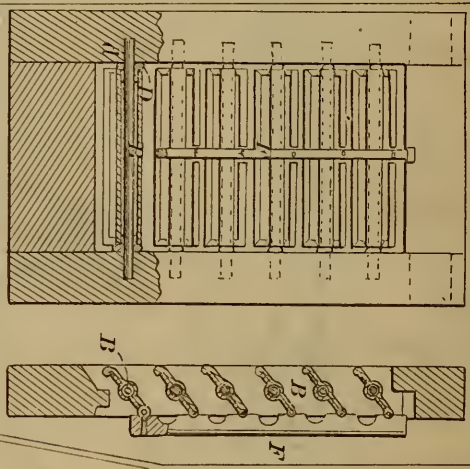
83285—G. B. Jenkinson—*Trunk Handle.*



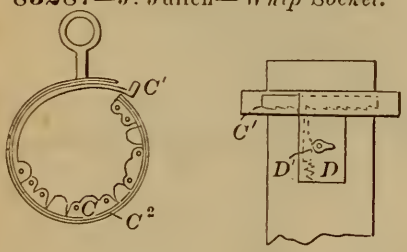
83283—H. B. Huie—*Gang Plow.*



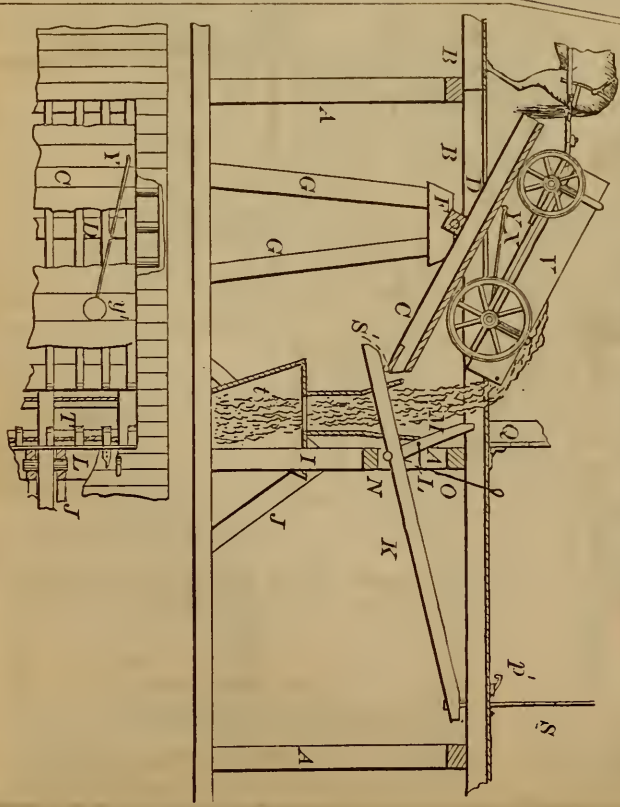
83286—W. Johnston—*Window Blind.*



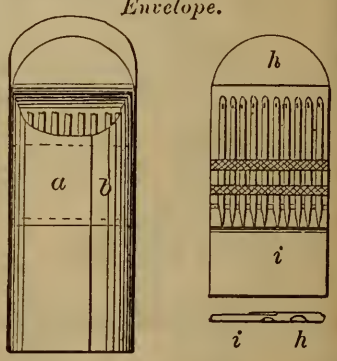
83287—J. Julien—*Whip Socket.*



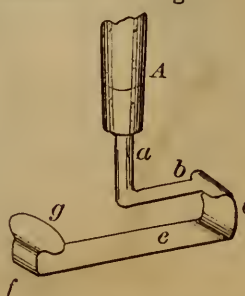
83288—S. C. Kenaga—*Dumping Platform.*



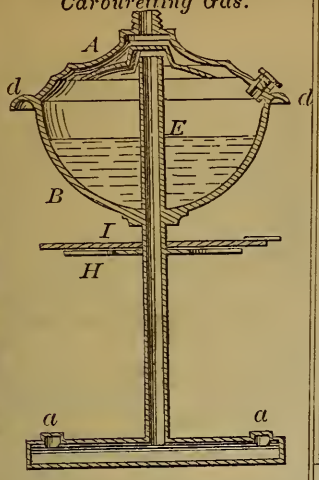
83284—A. James—*Needle Envelope.*



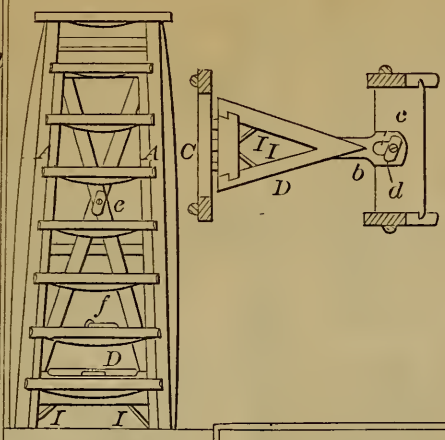
83290—L. King—*Hoe.*



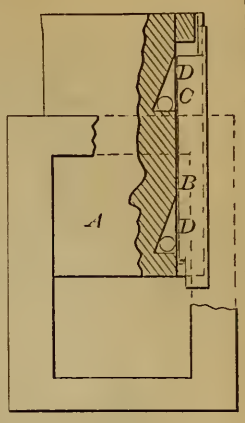
83289—J. Kidd—*For Carburetting Gas.*



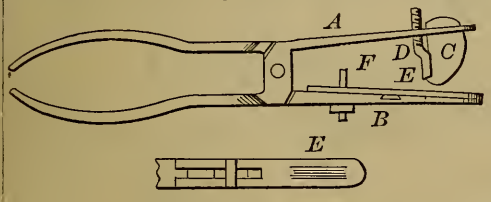
83291—M. C. Longacre—*Step Ladder.*



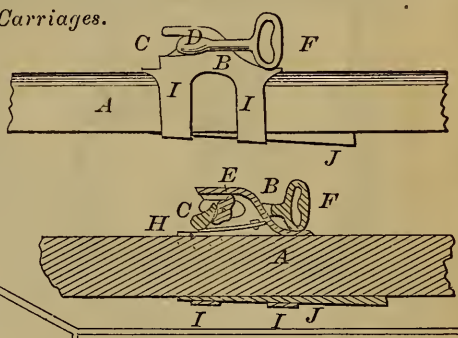
83292—S. L. Loomis—*Sash Holder.*



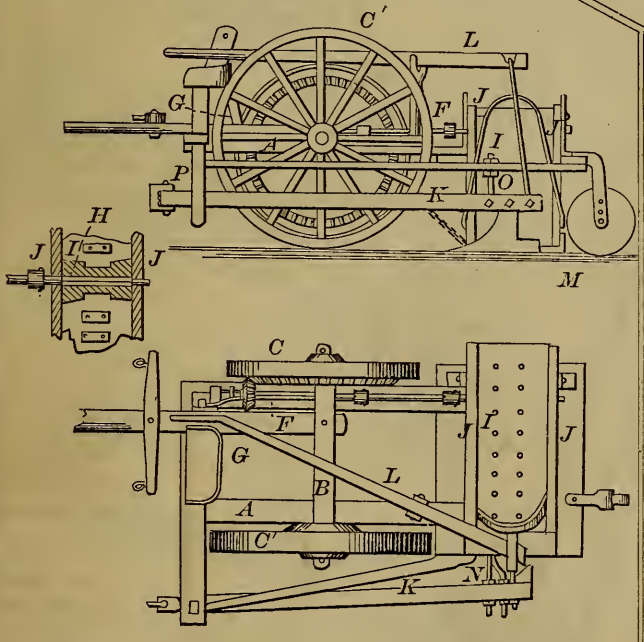
83293—A. J. Lytle—*Button Hole Cutter.*



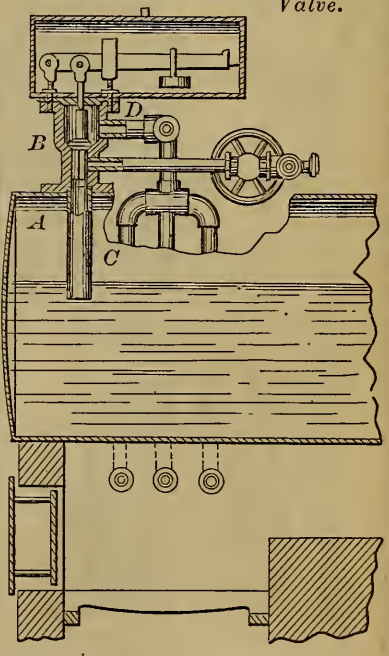
83294—J. A. Mackinnon—*Hold Back for Carriages.*



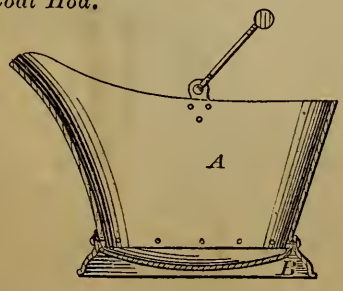
83296—J. Marsh—*Ditching Machine.*



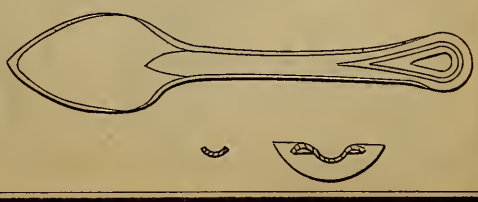
83295—W. R. Malone—*Safety Valve.*

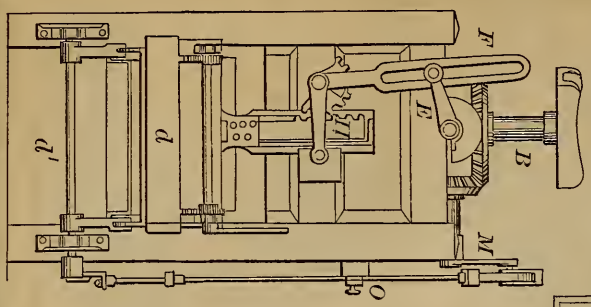


83301—F. G. & W. F. Niedringhaus—*Coal Hod.*

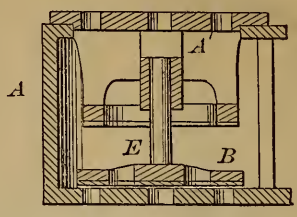


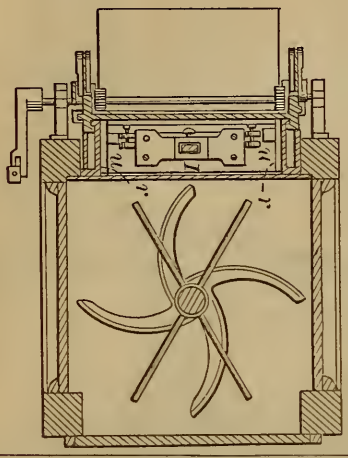
83300—F. G. Niedringhaus—*Spoon.*





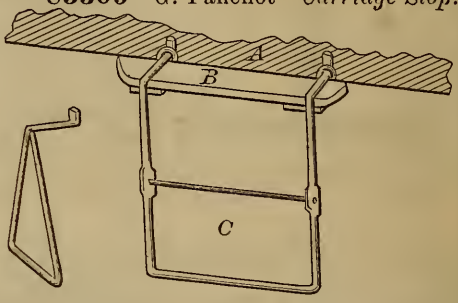
83302—J. A. Nichols—*Pump Valve.*



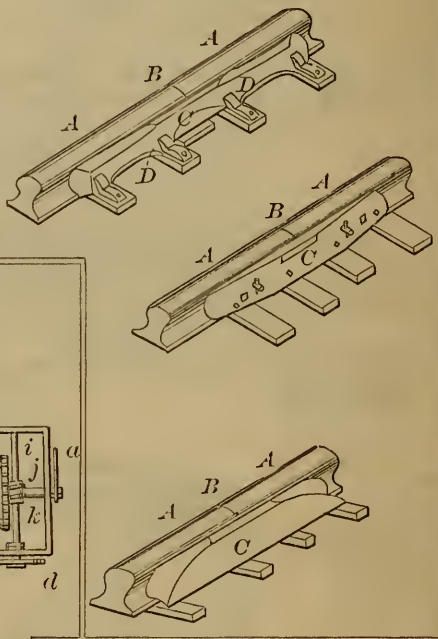


83307—H. Martin—*Brick Machine.*

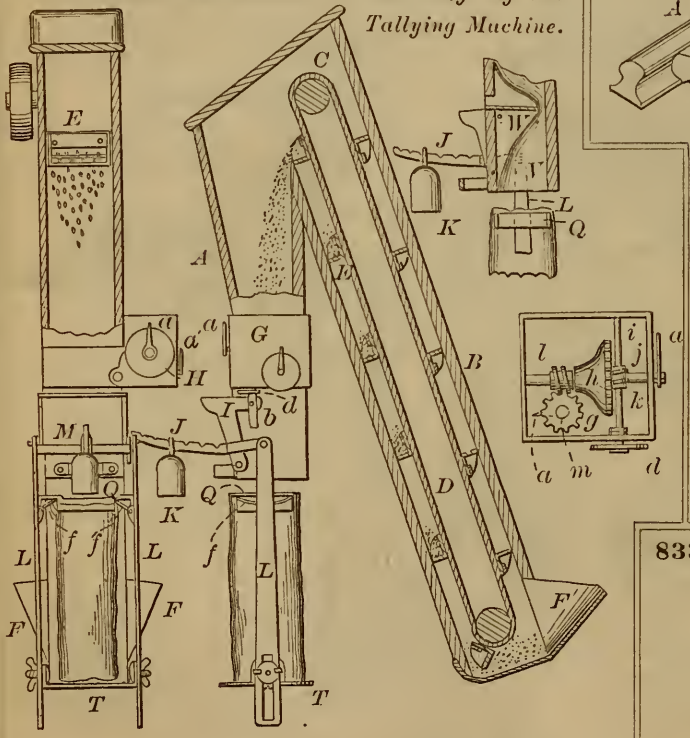
83305—G. Panchot—*Carriage Stop.*



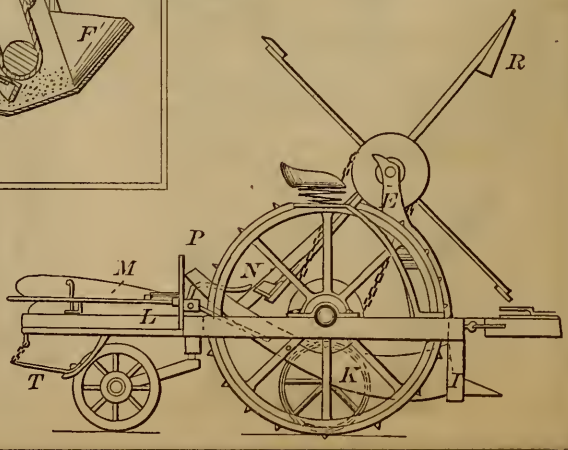
83303—G. Palmer—*Railway Rail Joint.*



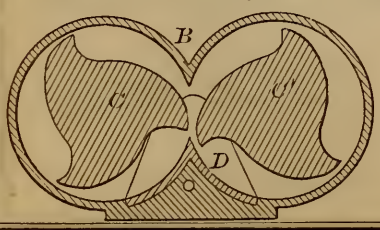
83298—F. S. McWhorter—*Grain Weighing and Tallying Machine.*



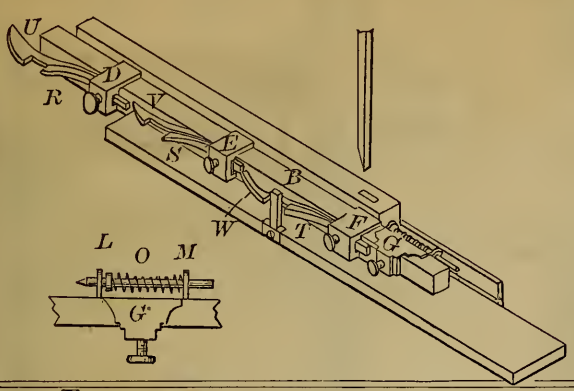
83304—I. H. Palmer—*Harvester.*



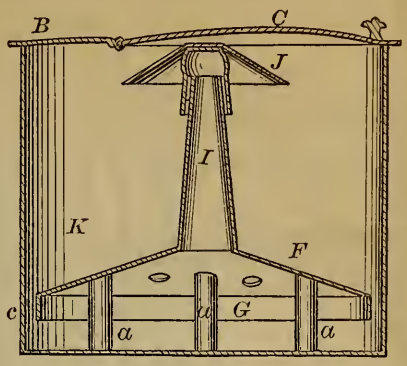
83308—J. G. Perry—*Meat Cutter.*



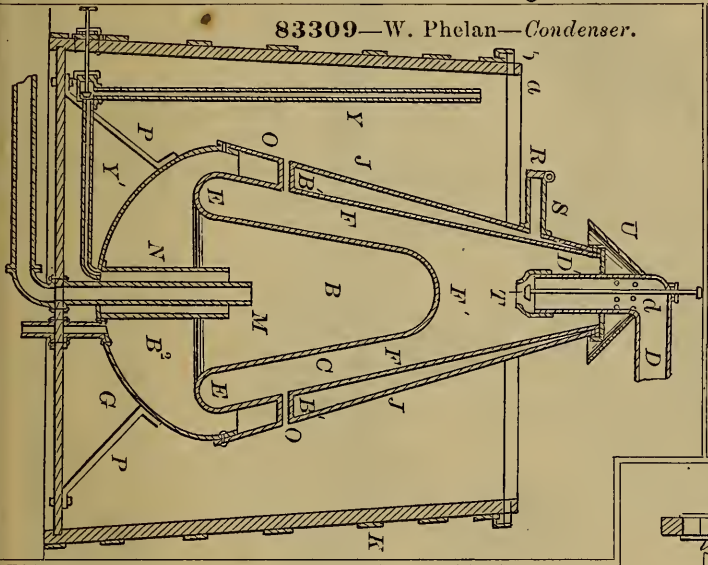
83306—F. Parker—*Mortising Machine.*



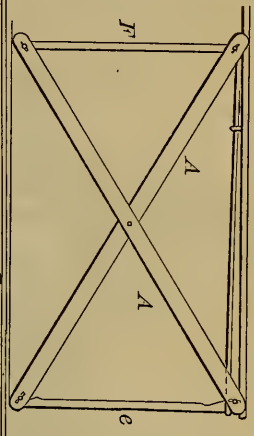
83307—W N. Peirce—*Wash Boiler.*



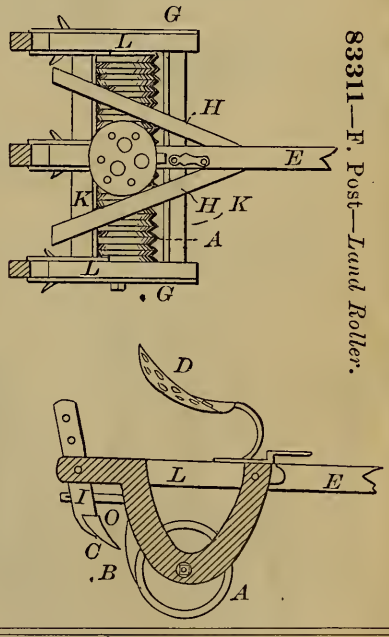
83309—W. Phelan—*Condenser.*



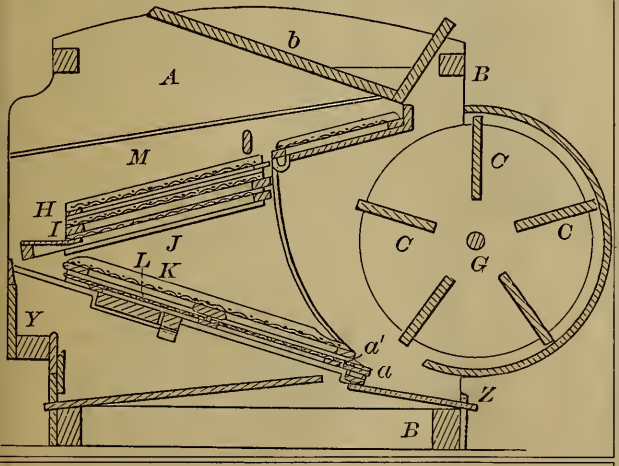
83310—J. T. Piercy—*Ironing Table.*



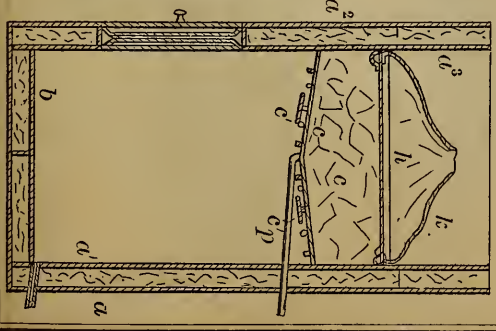
83311—F. Post—*Land Roller.*



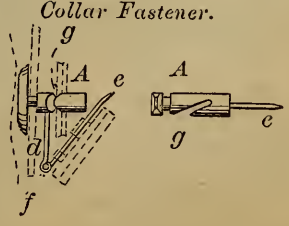
83312—J. P. Preston—*Fanning Mill.*



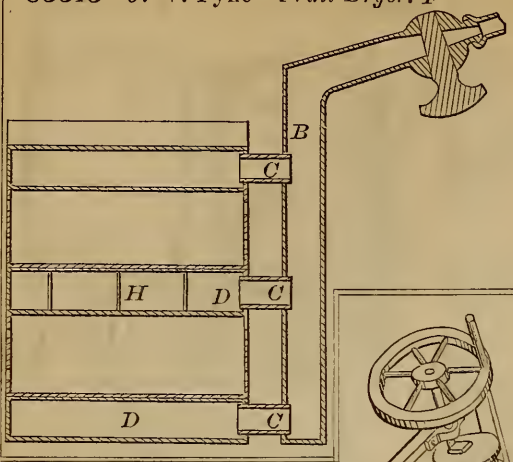
83316—T. L. Rankin—*Refrigerating House.*



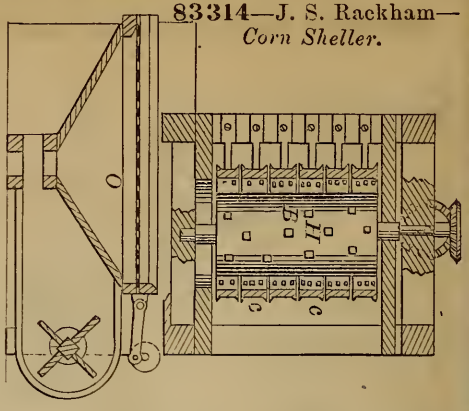
83318—E. Rau—*Neck Tie and Collar Fastener.*



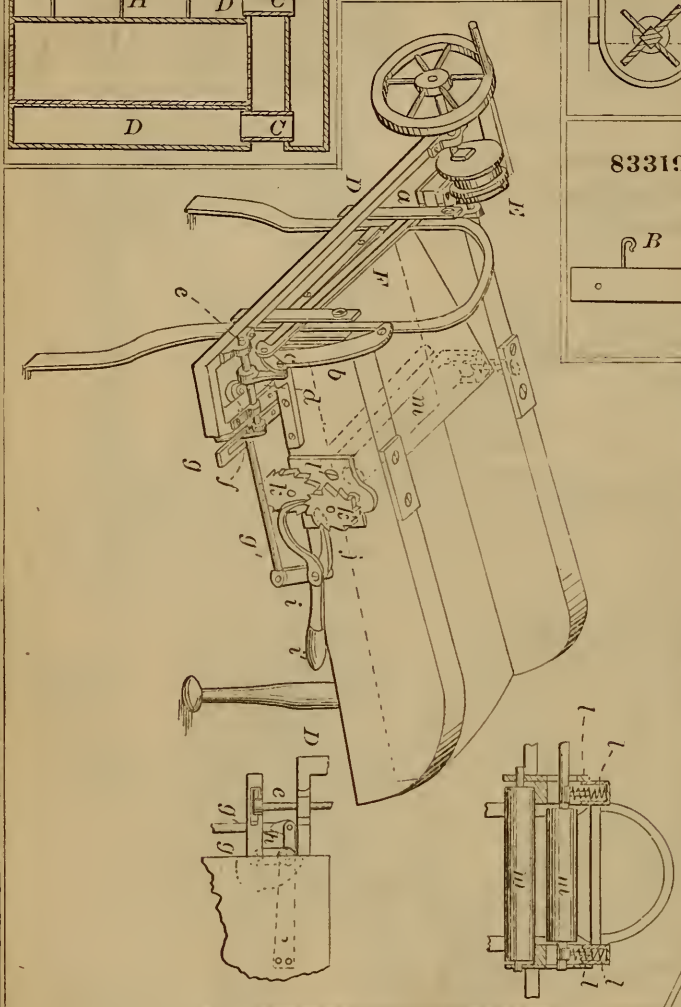
83313—J. W. Pyne—*Fruit Dryer. F*



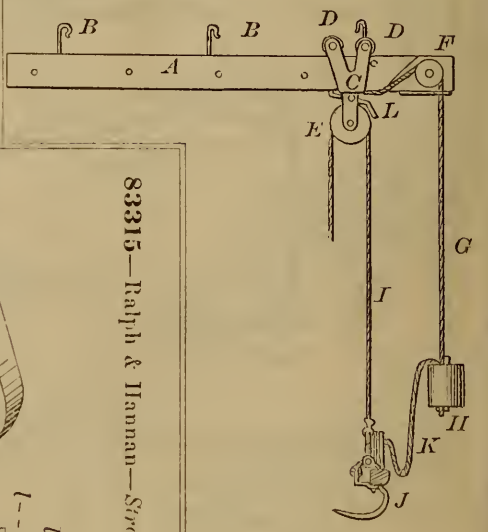
83314—J. S. Rackham—*Corn Sheller.*



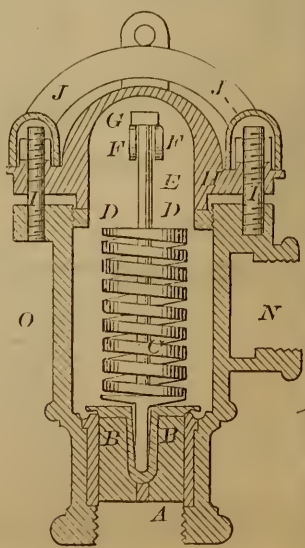
83315—Ralph & Hannan—*Straw Cutter.*



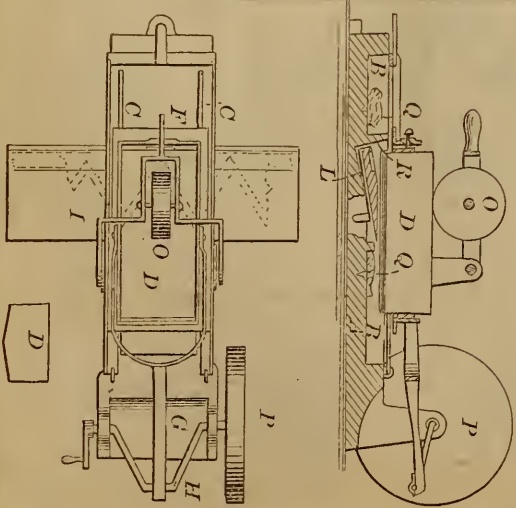
83319—J. J. Rea—*Elevator.*



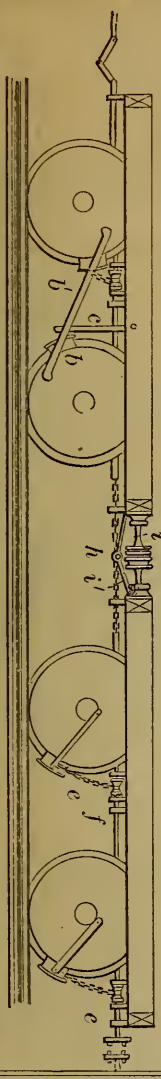
83320—Richardson & Waterman—*Steam Safety Valve.*



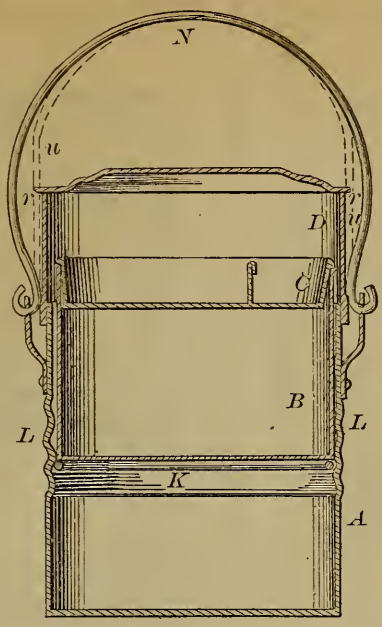
83322—G. Sanford—*For Sharpening Mowing Machine Cutters*



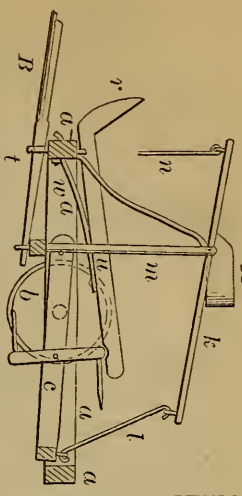
83321—M. H. Rumpf—*Railway Car Brake.*



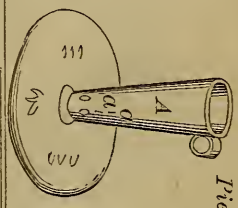
83323—M. Saulson—*Dinner Pail.*



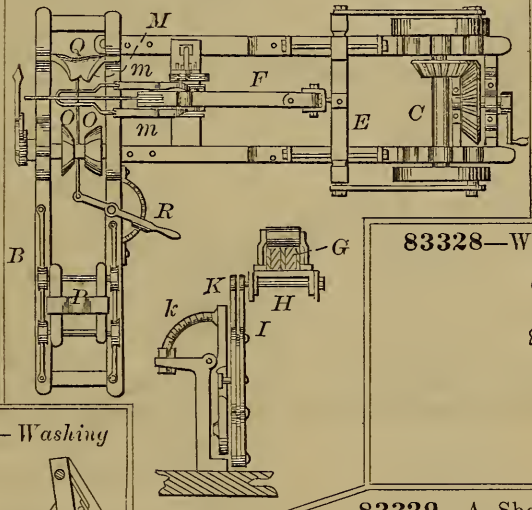
83326—N. Selby—*Horse Rake.*



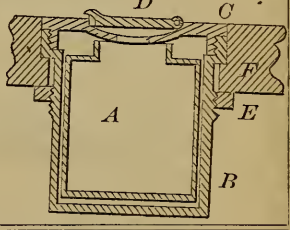
83327—Mrs. N. M. Selden—*Pie Tube.*



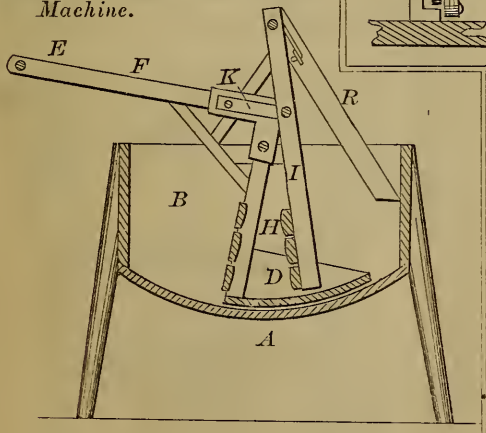
83324—F. M. Schaeffer—*Sewing Machine.*



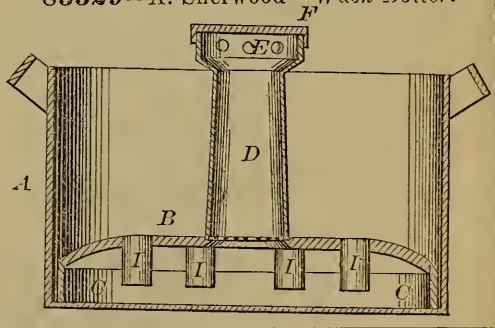
83328—W. G. Shattuck—*Inkstand.*



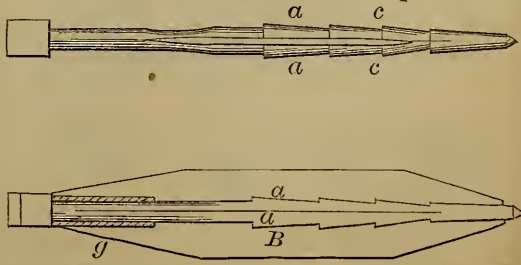
83325—J. Scott—*Washing Machine.*



83329—A. Sherwood—*Wash Boiler.*

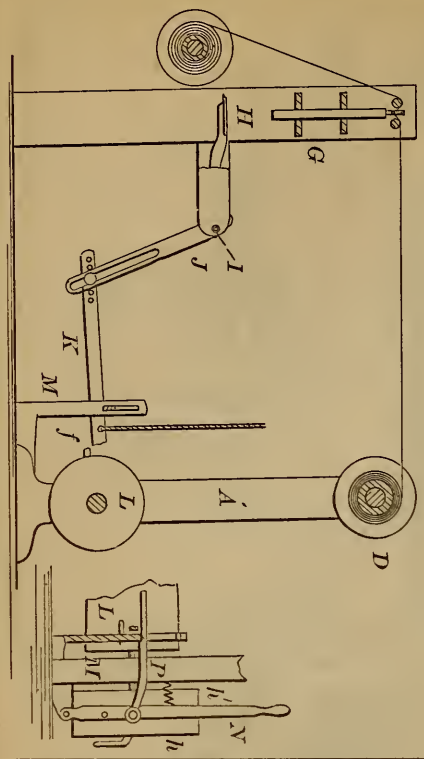


83331—C. E. Smith—*Shuttle Spindle.*

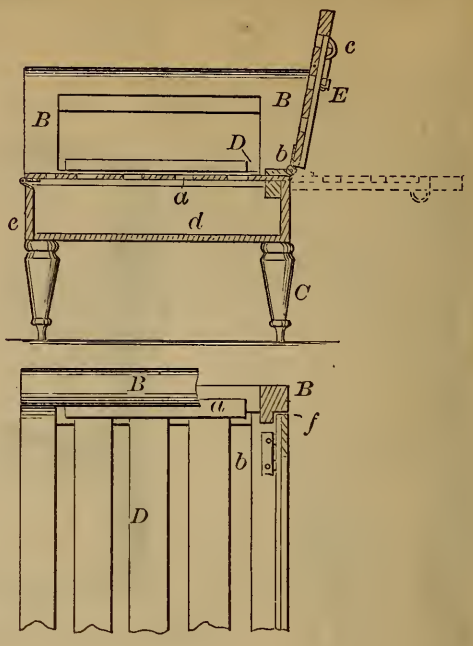


83332—P. W Smith—*For Fastening Skirt Collars.*

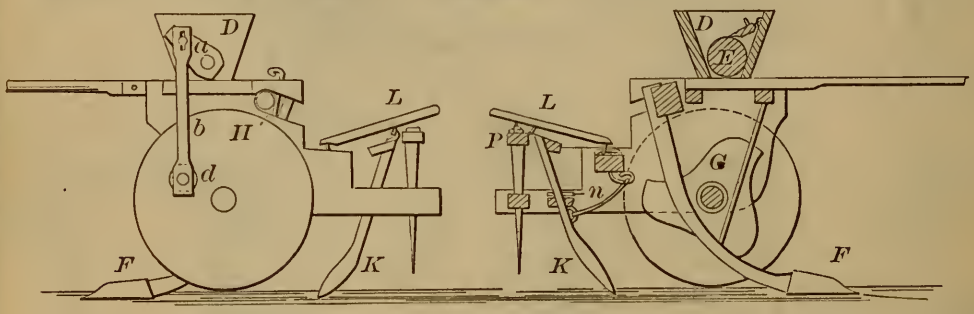
83330—J. Siegrist—*Warping Machine.*

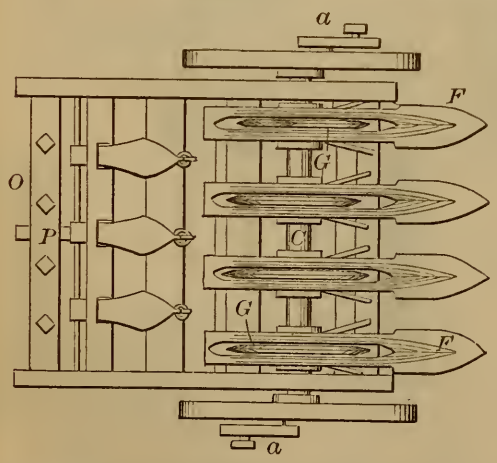


83333—B L. Southack—*Sofa Bedstead.*

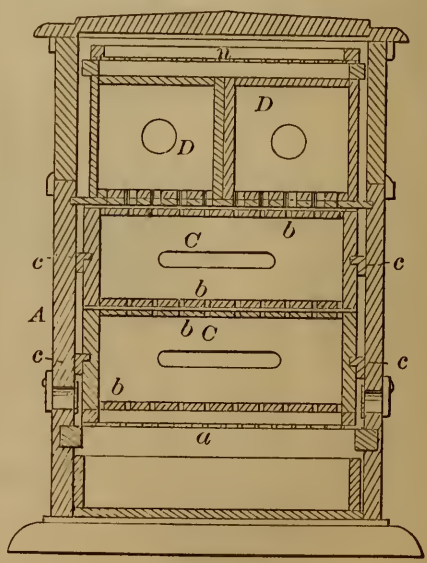


83334—L. Stadler—*Seeder and Cultivator.*

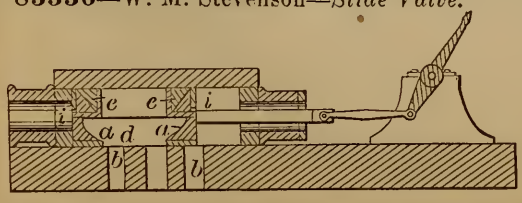




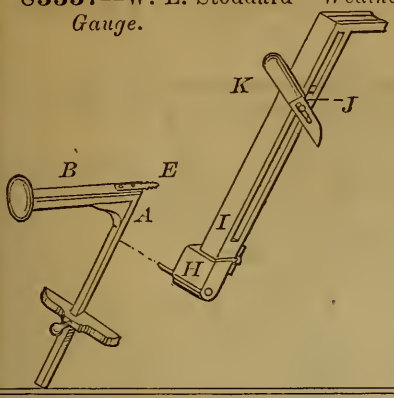
83335—U. Stansbury—*Beehive.*



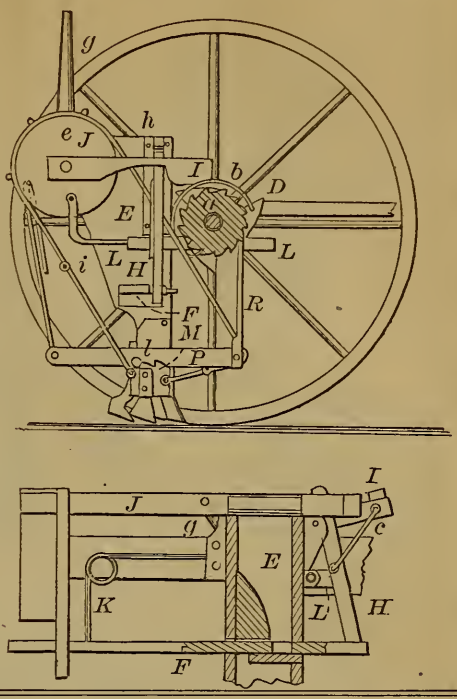
83336—W. M. Stevenson—*Slide Valve.*



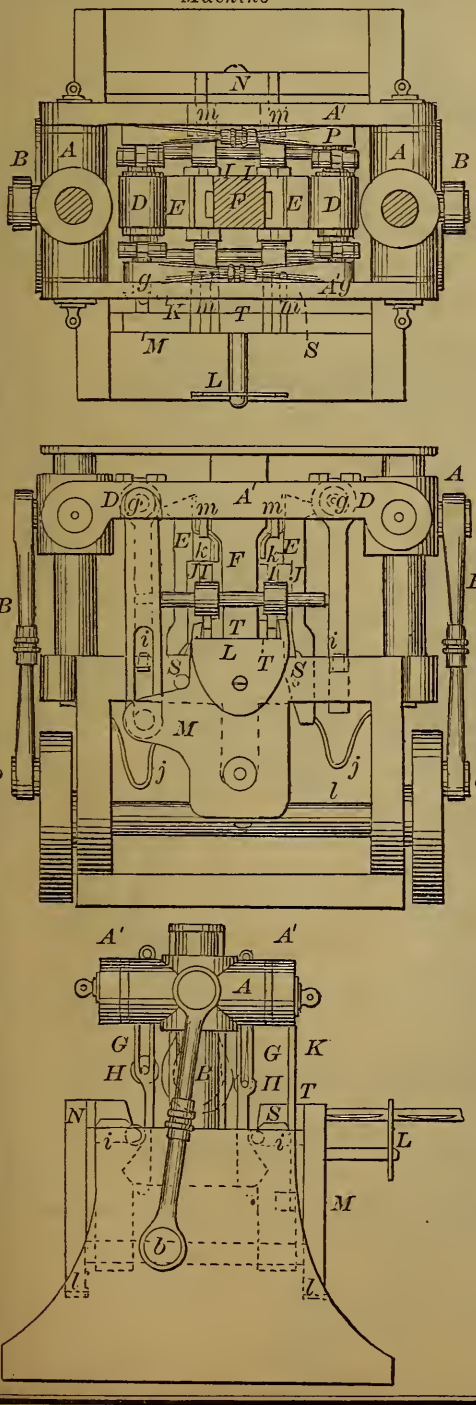
83337—W. E. Stoddard—*Weatherboard Gauge.*



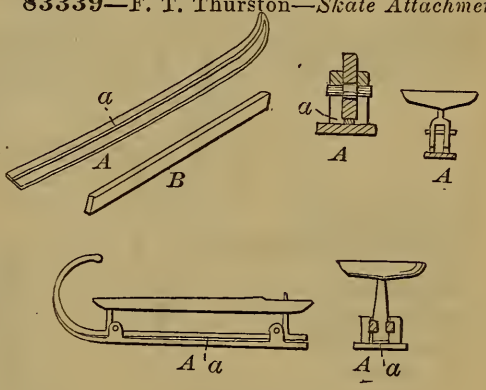
83338—D. F. Taft—*Corn Planter.*



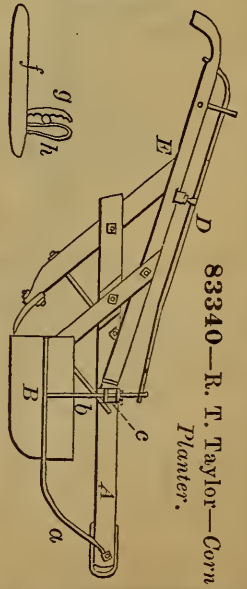
83342—E. B. Turner—*Horse Shoe Machine*



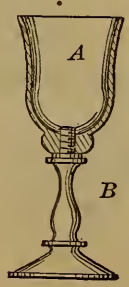
83339—F. T. Thurston—*Skate Attachment.*



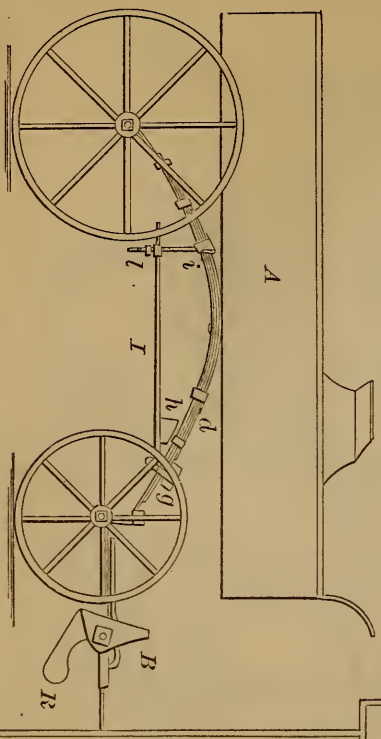
83340—R. T. Taylor—*Corn Planter.*



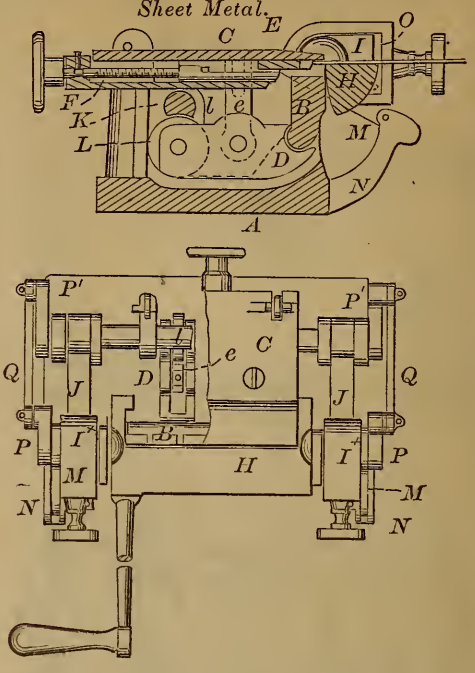
83341—J. S. Towndrow—*Cup.*



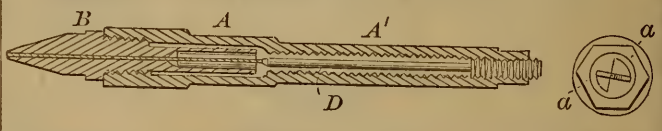
83343—J. D. Van Hoevenbergh—*Spring Adjuster.*



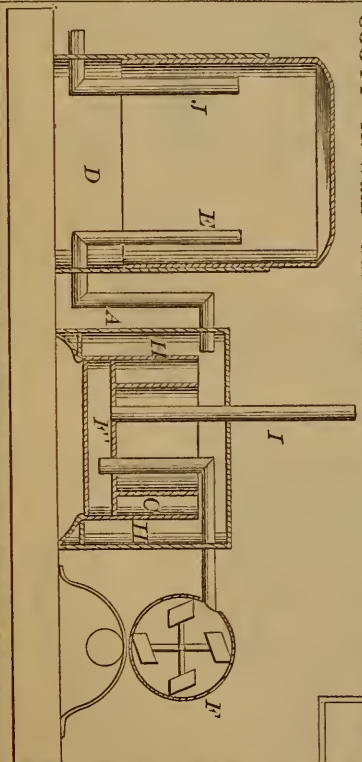
83347—A. & P. A. Whitney—*For Bending Sheet Metal.*



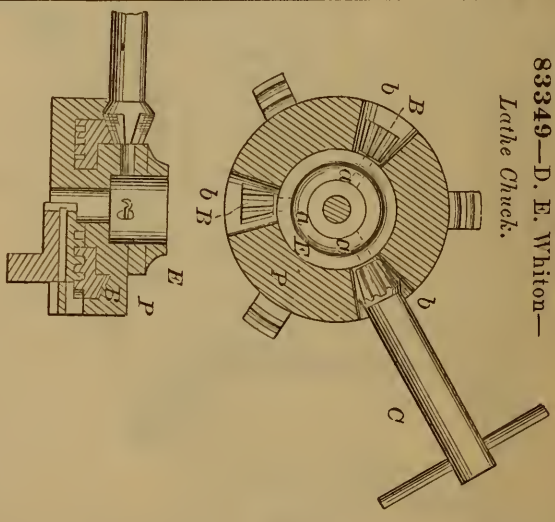
83348—P. A. Whitney—*Counter Sink.*



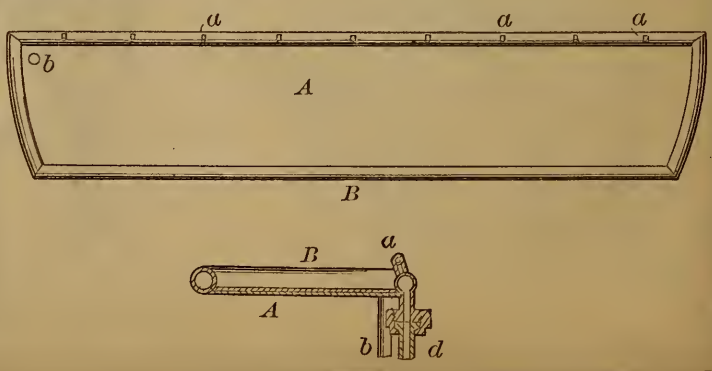
83344—H. Wain—*Gas Machine.*



83349—D. E. Whiton—*Lathe Chuck.*

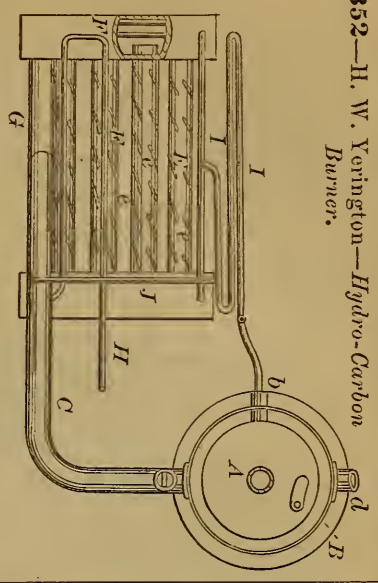


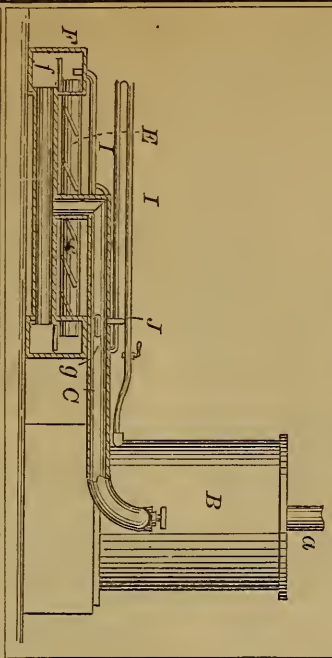
83346—J. C. Wharton—*Soda Fountain.*



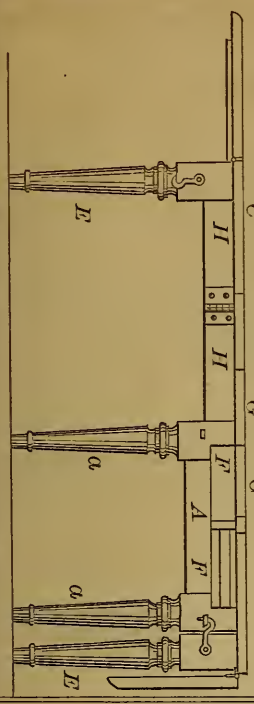
83353—J. W. Murrell—*For Cutting Thread.*

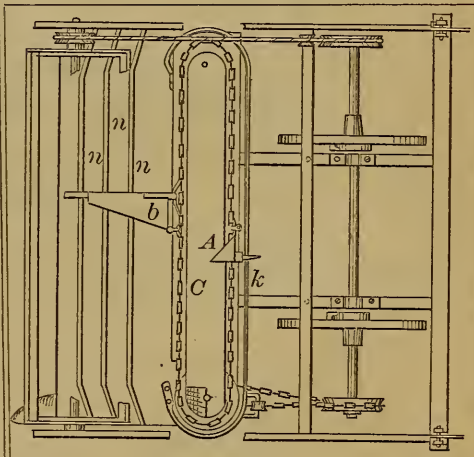
83352—H. W. Yerington—*Hydro-Carbon Burner.*



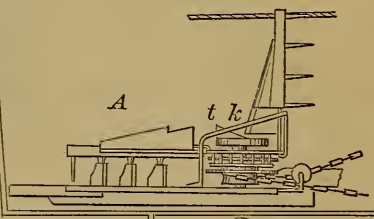


83350—Wolfinger & Barrett—*Table.*

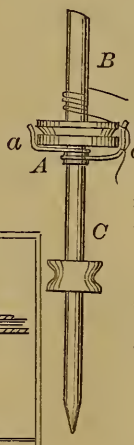




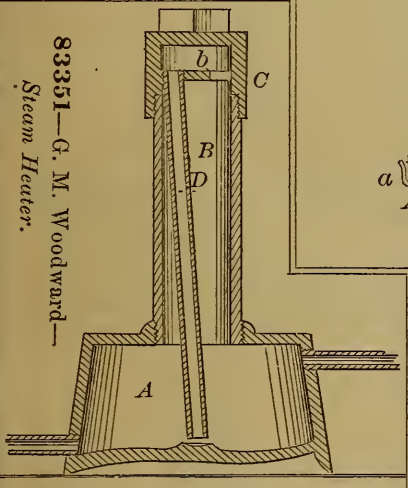
83355—P. Ammerman—*Harvester Rake.*



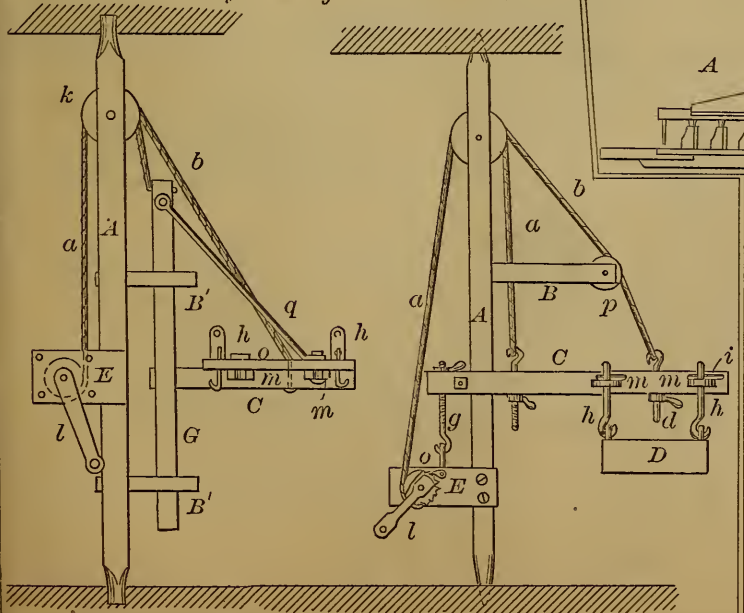
83354—T. L. Luders—*Bobbin and Thread Holder.*



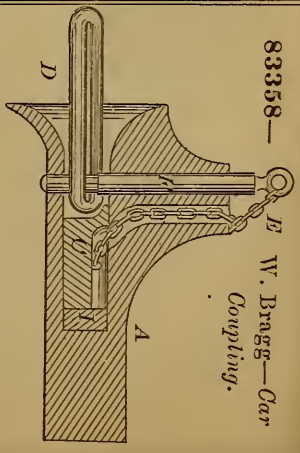
83351—G. M. Woodward—*Steam Heater.*



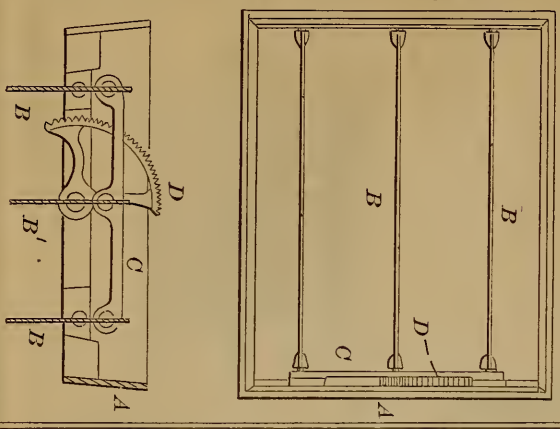
83356—J. D. Ayers—*Sugar Pan Derrick.*



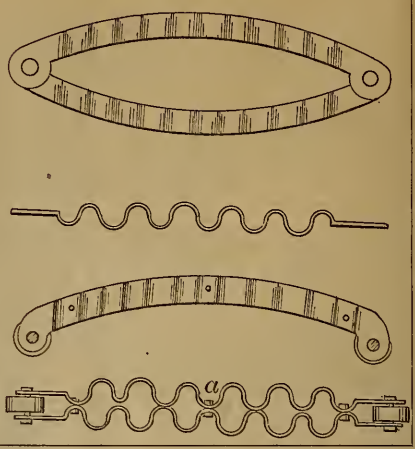
83358—E. W. Bragg—*Car Coupling.*



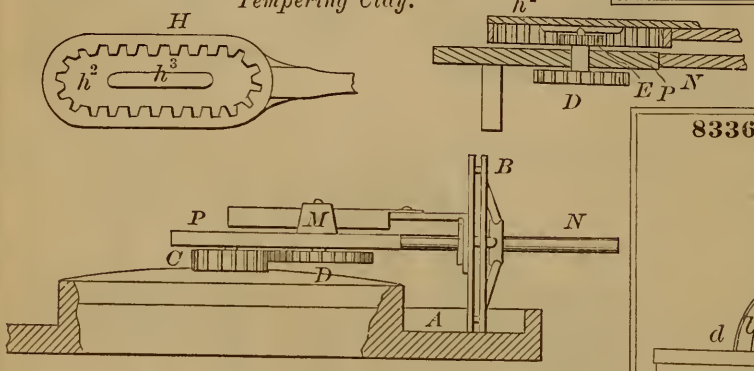
83359—T. W. Brown—*Hot Air Register.*



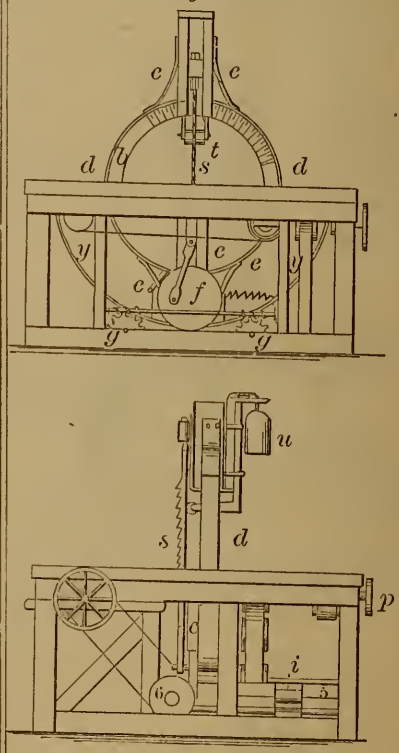
83360—F. Carjar—*Spring.*



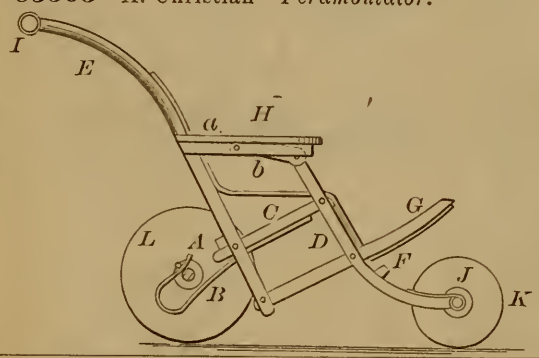
83361—Carnell, Williams & Ellis—*Mill for Tempering Clay.*



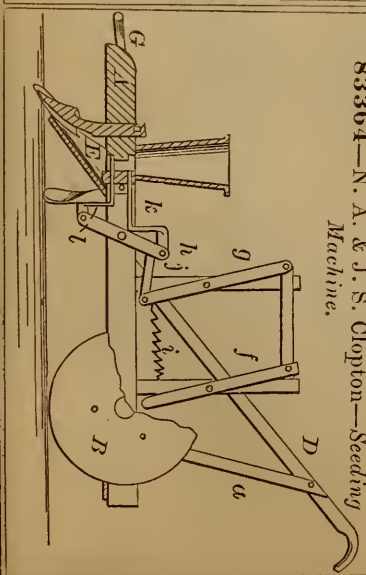
83362—J. E. Chamberlin—*Jig Saw.*



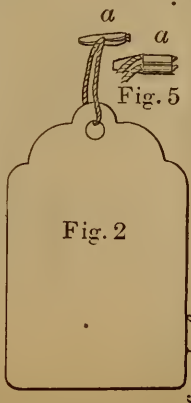
83363—A. Christian—*Perambulator.*

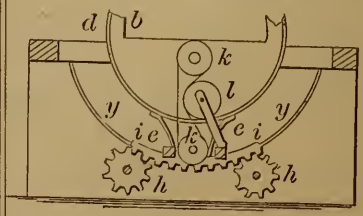


83364—N. A. & J. S. Clopton—*Seeding Machine.*

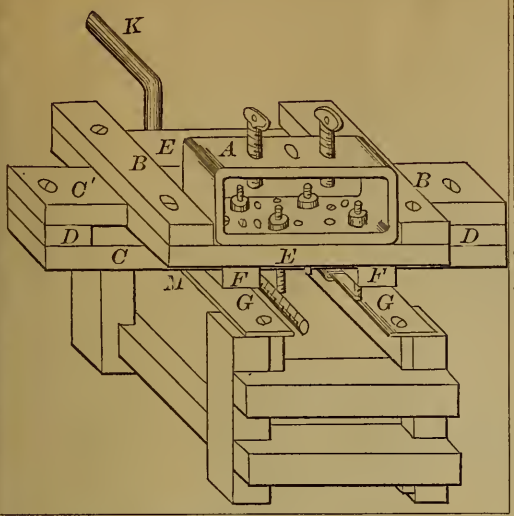


83368—B. L. Dennison—*Attaching Springs to Tags.*

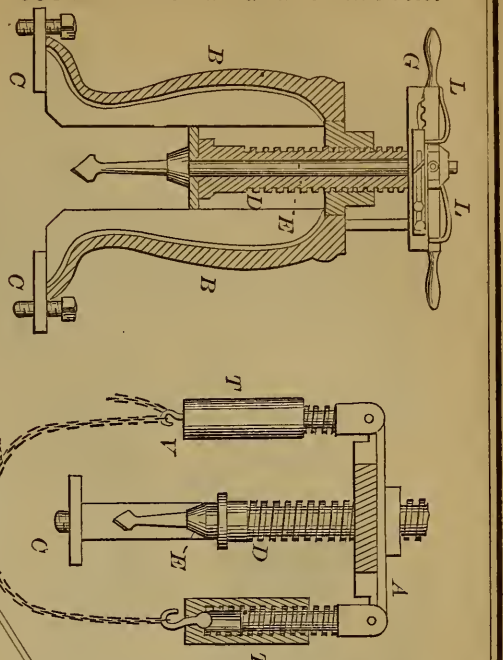




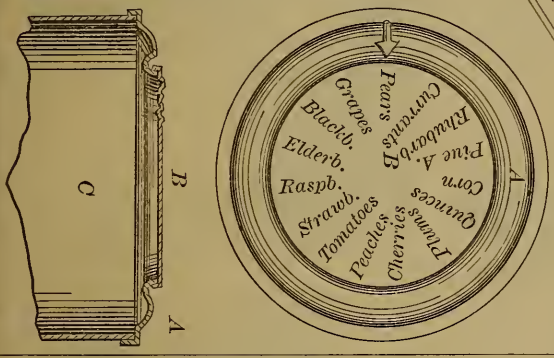
83365—W. Crossley—*For Edging Metals.*



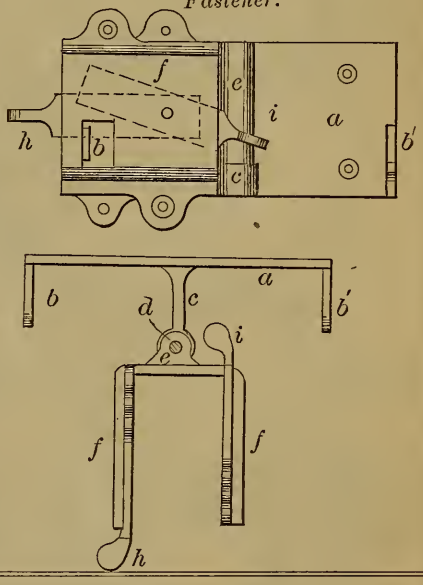
83366—Cullen & Baird—*Drill Press.*

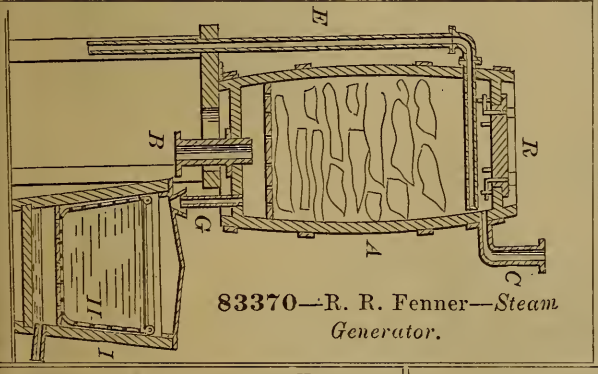


83367—E. M. Davis—*Fruit Jar.*



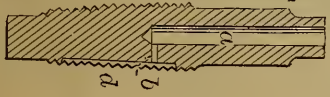
83369—L. Felker—*Hinge and Fastener.*



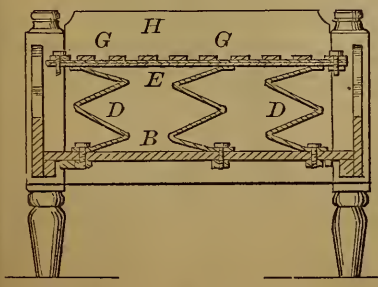


83370—R. R. Fenner—*Steam Generator.*

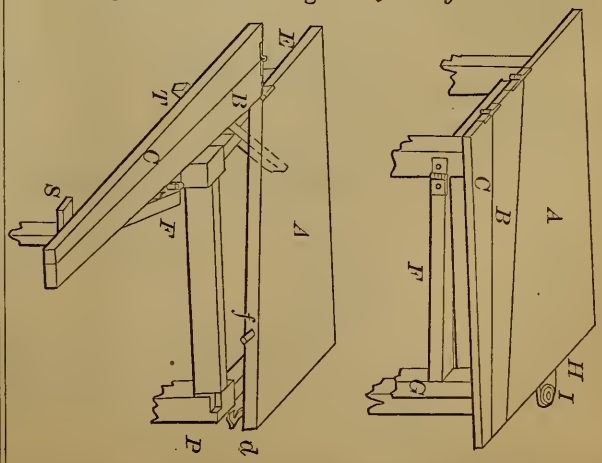
83371—W. K. Foster—*Tap.*



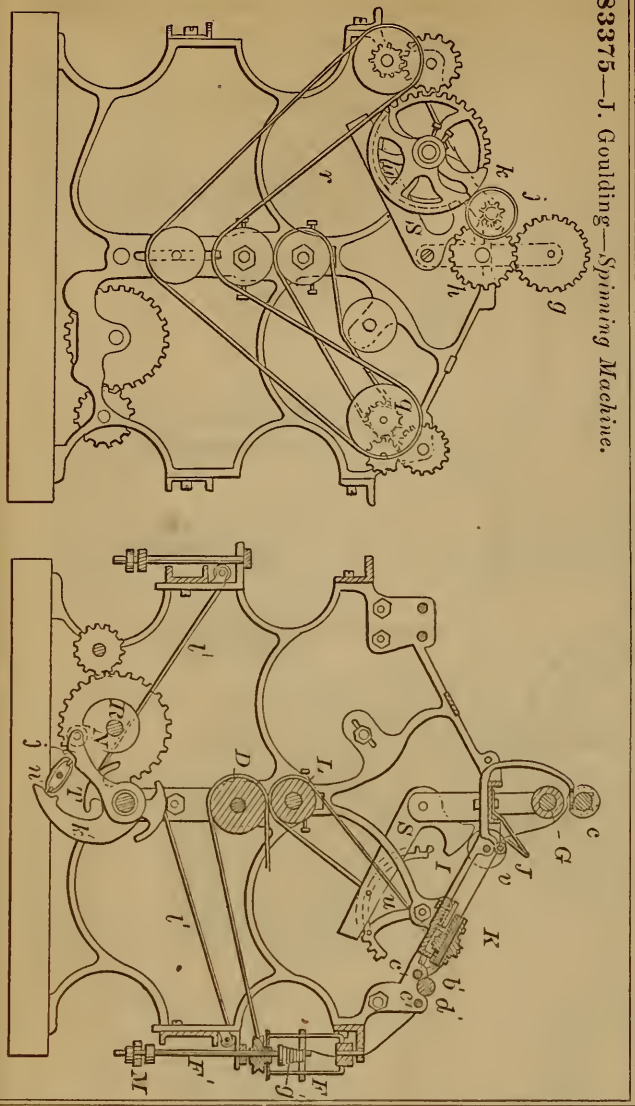
83373—Gaffney & Dunks—*Spring Bed Bottom.*



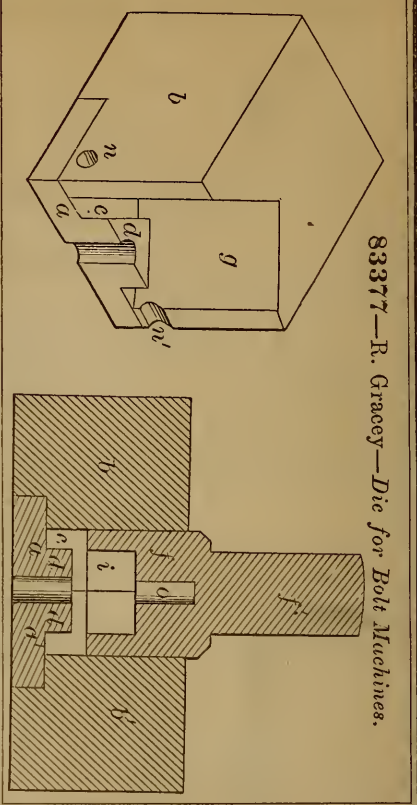
83379—L. Harrington—*Ironing Table.*



83375—J. Goulding—*Spinning Machine.*



83377—R. Gracey—*Die for Bolt Machines.*



83378—H. H. Hall—*Index.*

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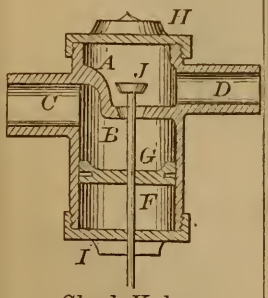
6	E	2F	3G	4H	5I	6J	7K	8L	9M
7	F	2G	3H	4I	5J	6K	7L	8M	9N
8	G	2H	3I	4J	5K	6L	7M	8N	9O
9	H	2I	3J	4K	5L	6M	7N	8O	9P

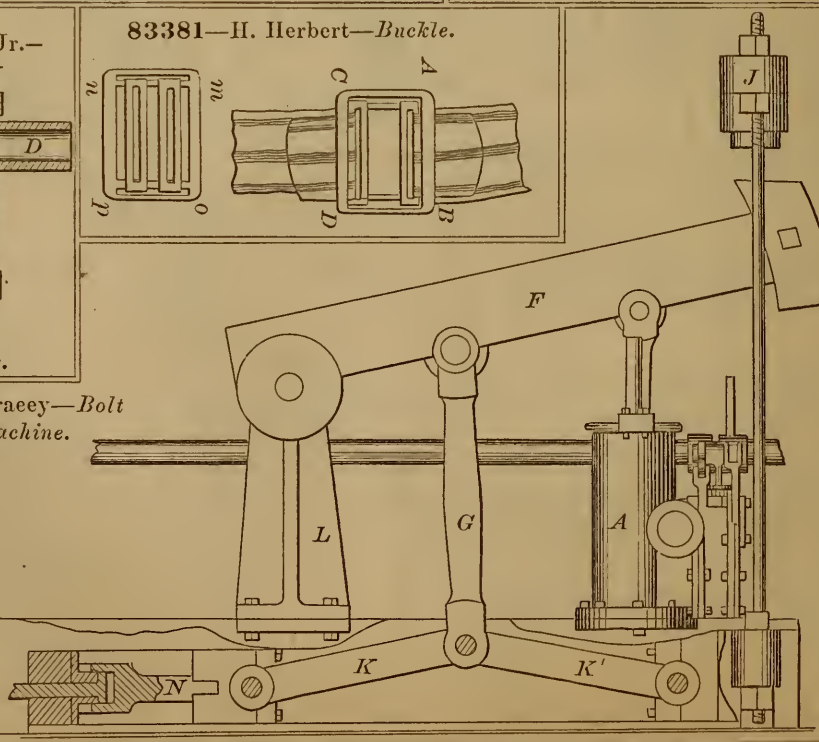
83380—J. Hayden, Jr.—



Check Valve.

83381—H. Herbert—*Buckle.*

83376—R. Gracey—*Bolt Heading Machine.*



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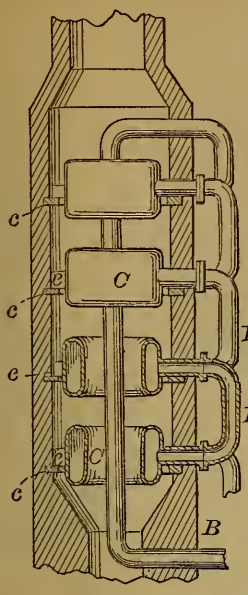

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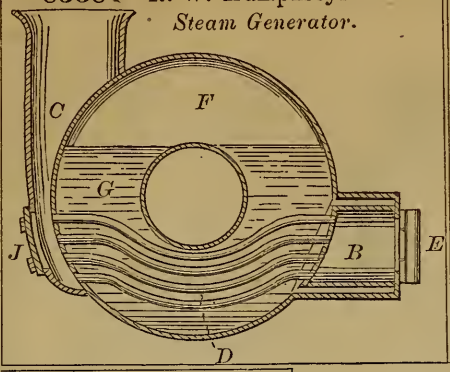
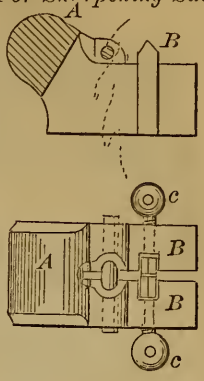
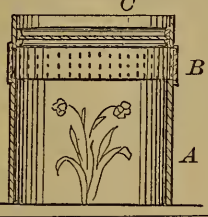


83383—D. Huffman—*For Sharpening Saws.*



83386—J. M. Hurt—*Plant Protector.*



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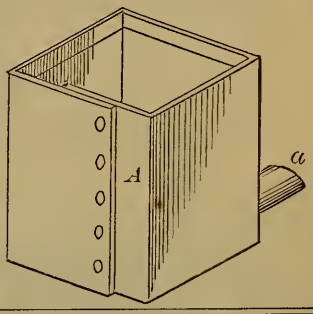

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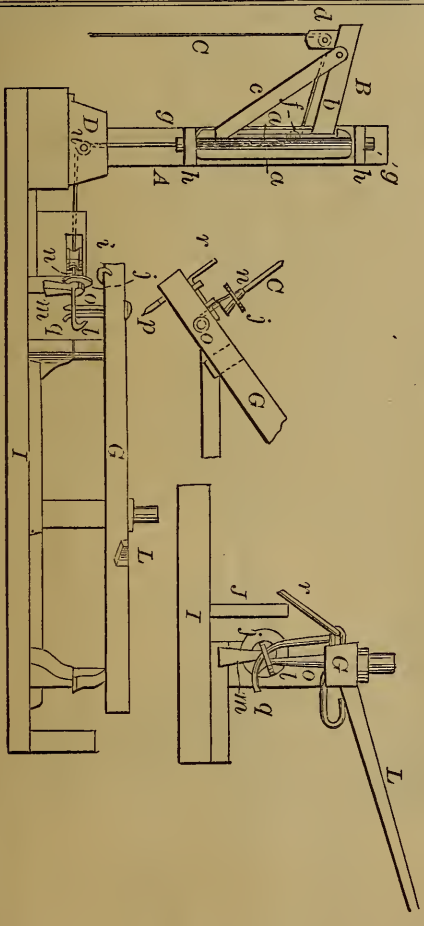

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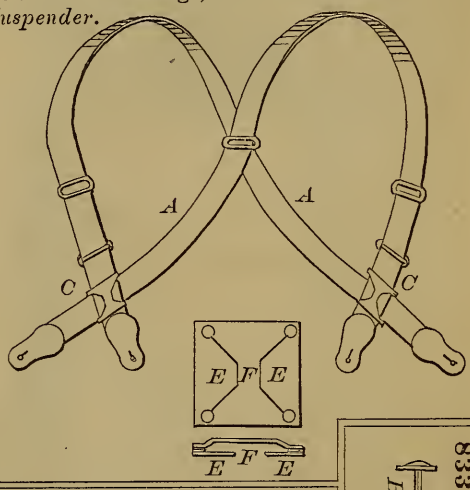

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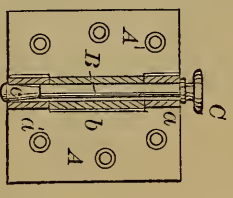
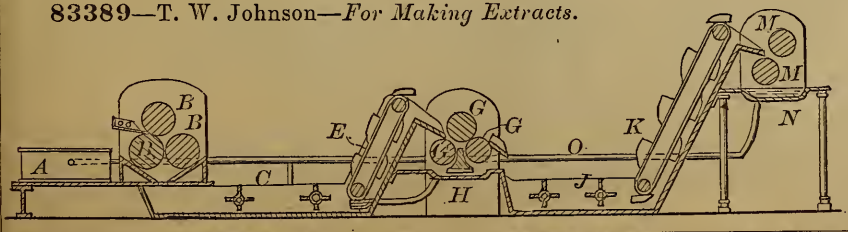
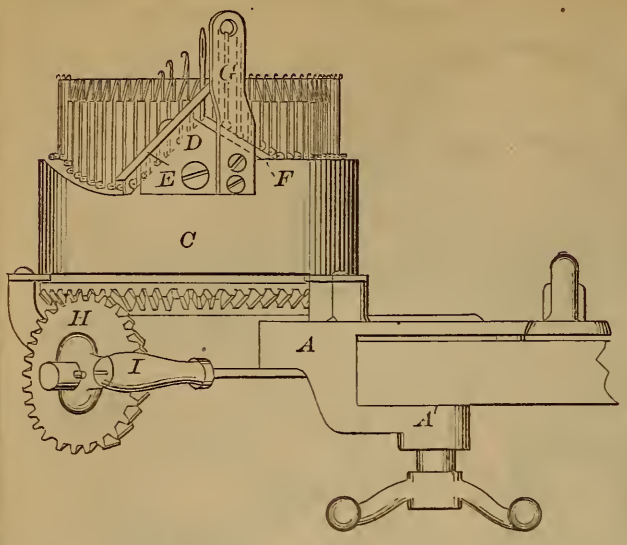


83391—M. J. Lourrentz—*Lamp Chimney Cleaner.*

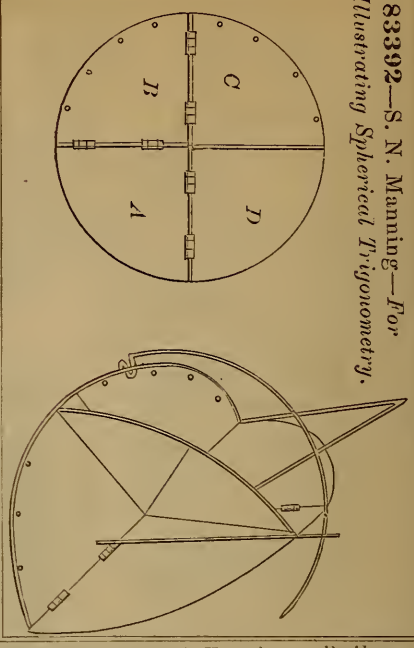
83389—T. W. Johnson—*For Making Extracts.*



83390—D. Kidder—*Knitting Machine.*



83392—S. N. Manning—*For Illustrating Spherical Trigonometry.*



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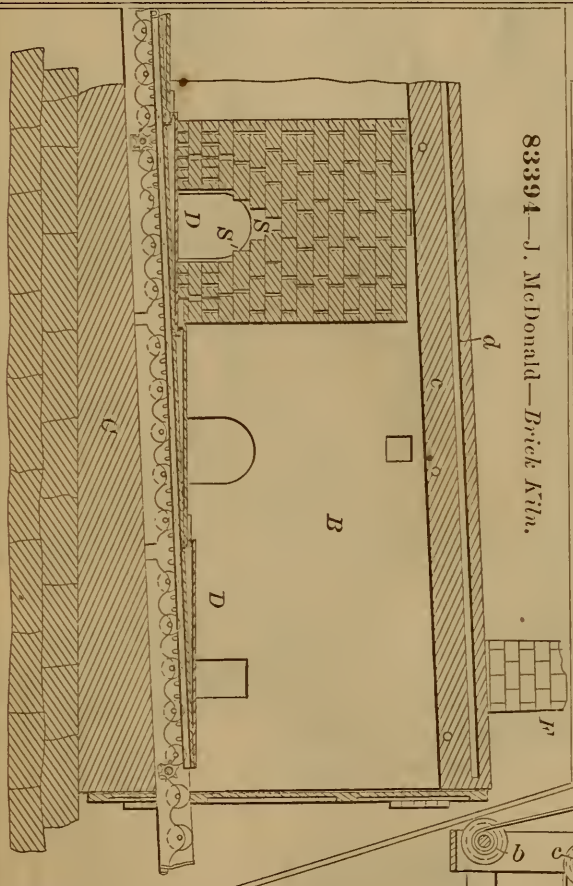

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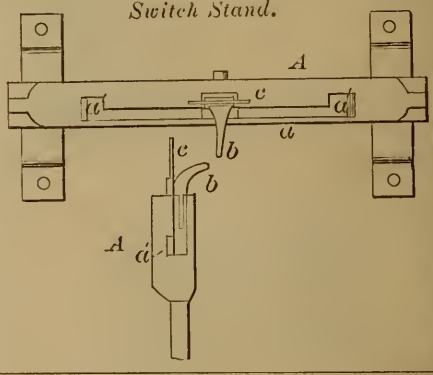
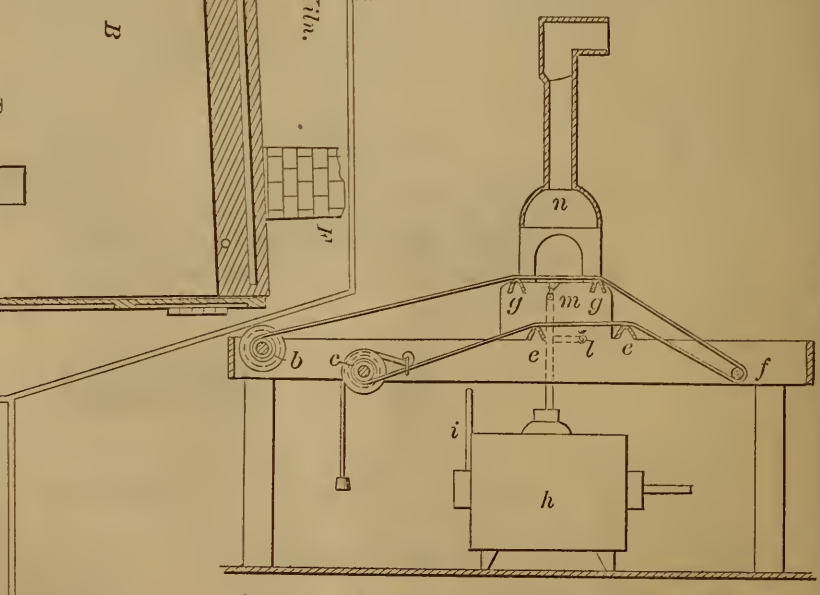
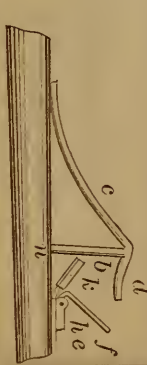


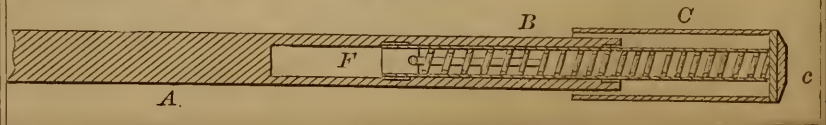
83395—McEwen & McKenzie—*Singeing Machine.*



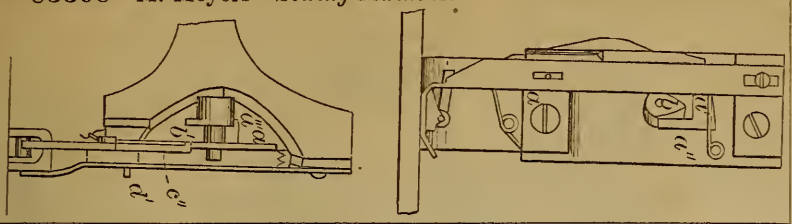
83400—R. Moody—*Holdback.*



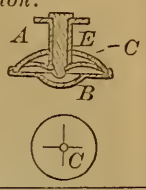
83397—J. N. McIntire—*Billiard Cue.*



83398—M. Meyers—*Sewing Machine.*

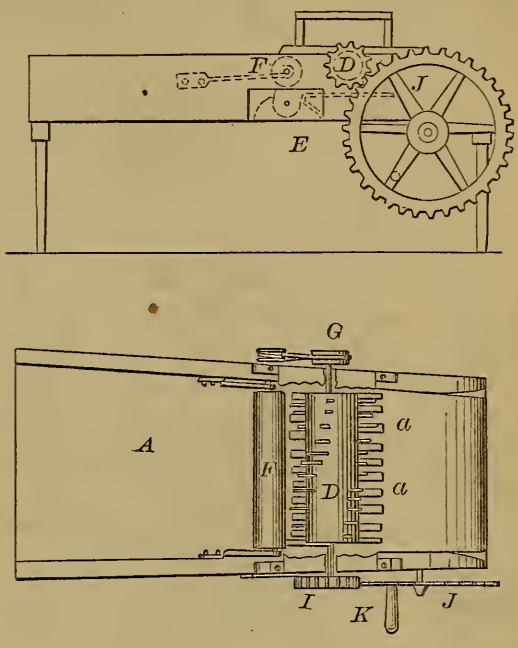


83403—C. N. Nickerson—*Button.*

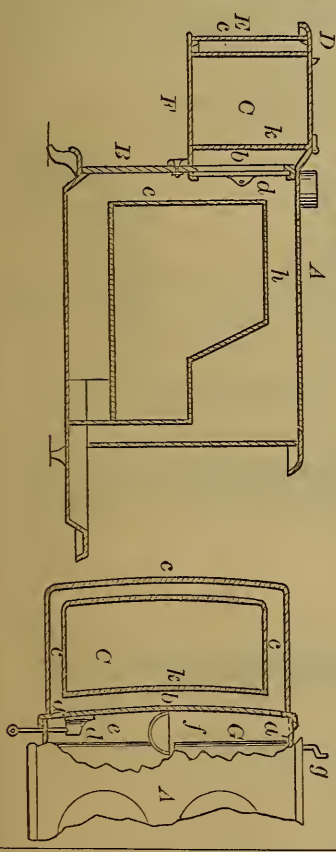


83401—H. B. Morrison—*Elbow Joint for Stove Pipes.*

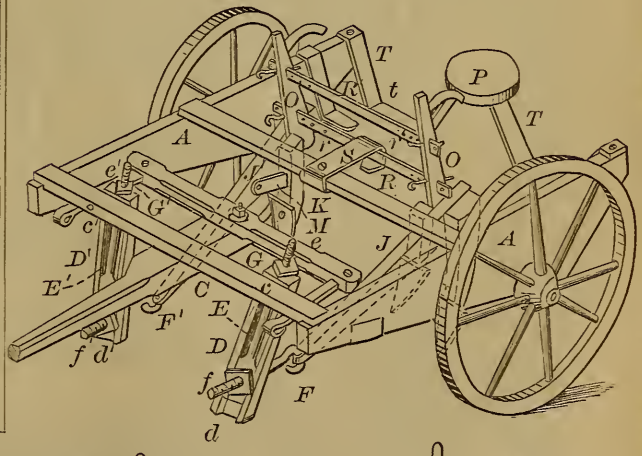
83402—Nash & Kenfield—*For Preparing Husks.*

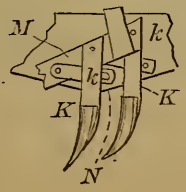


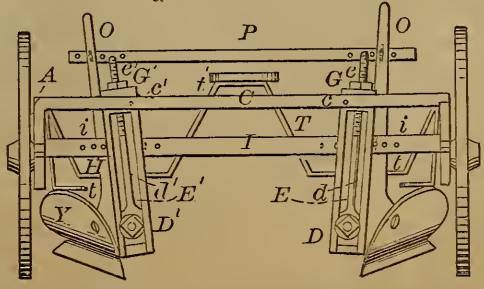
83407—J. F. Quimby—*Stove.*



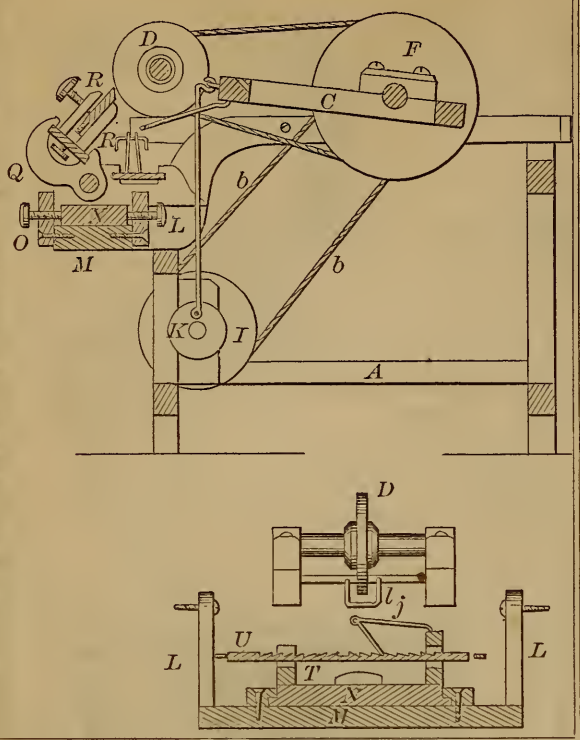
83404—Orr & Martin—*Plow and Cultivator.*



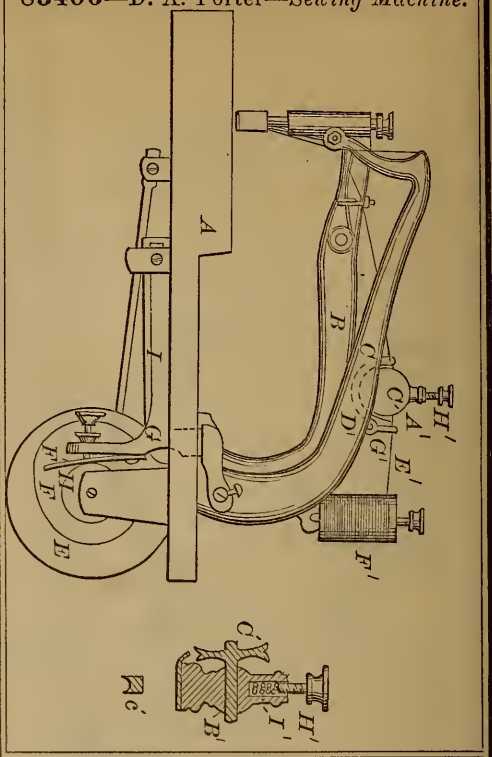




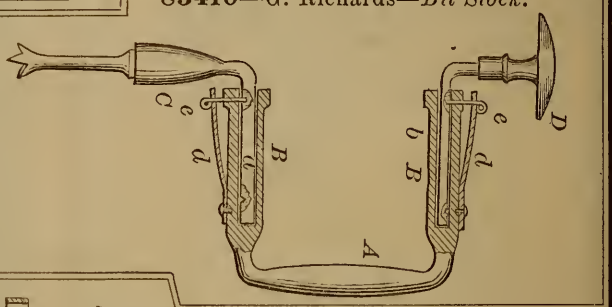
83405—J. L. Otis—*Grinding Machine.*



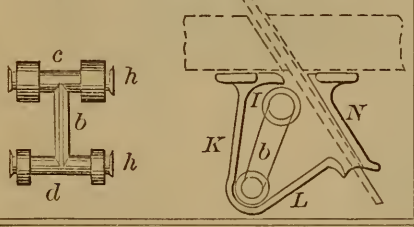
83406—D. A. Porter—*Sewing Machine.*



83410—G. Richards—*Bit Stock.*



83411—P. Rodier—*Stop Device.*



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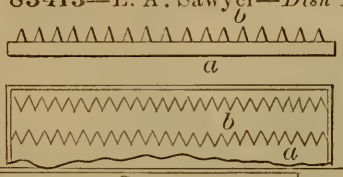
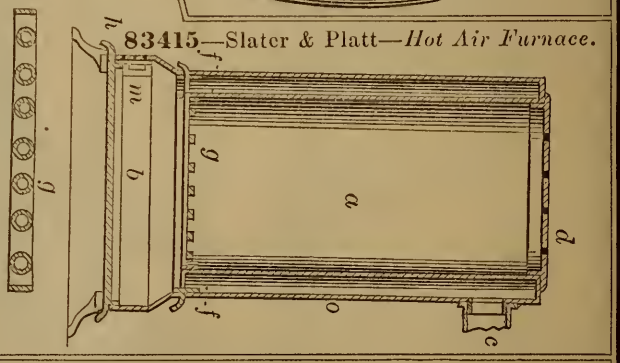


83415—Slater & Platt—*Hot Air Furnace.*



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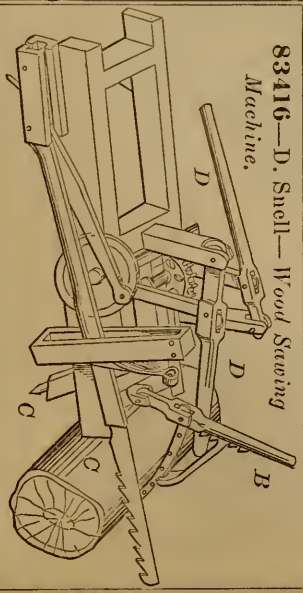

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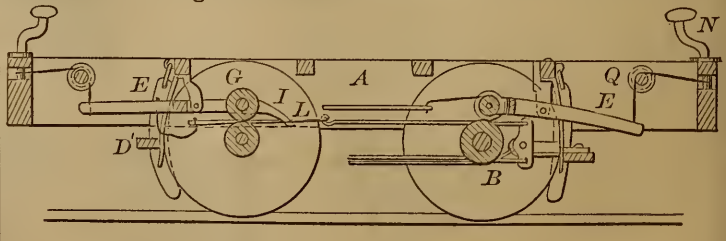

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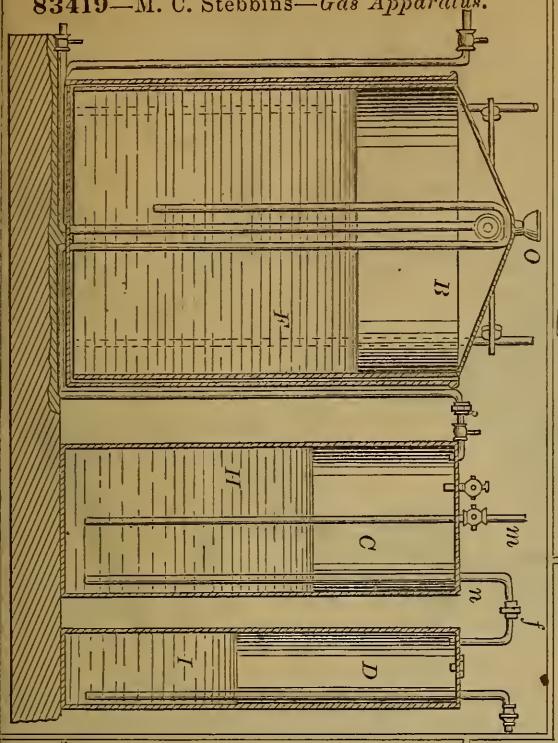

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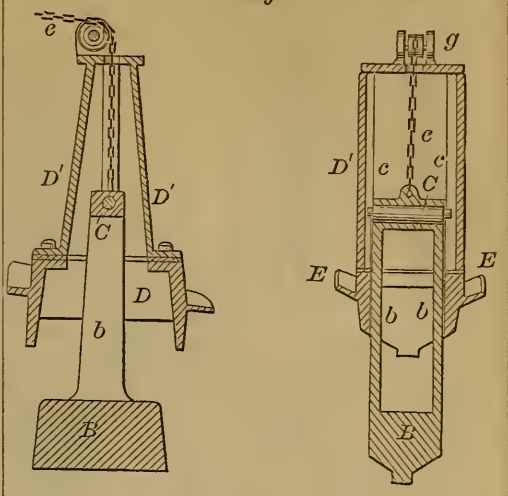

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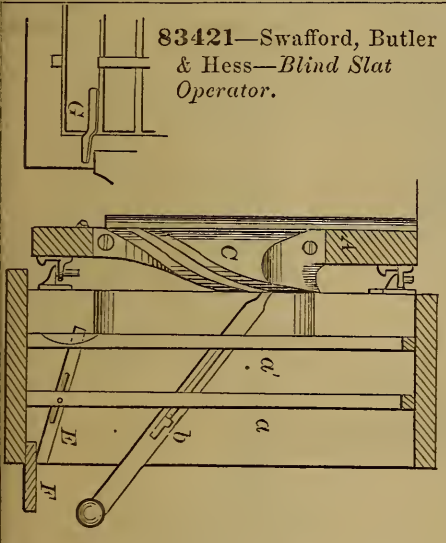
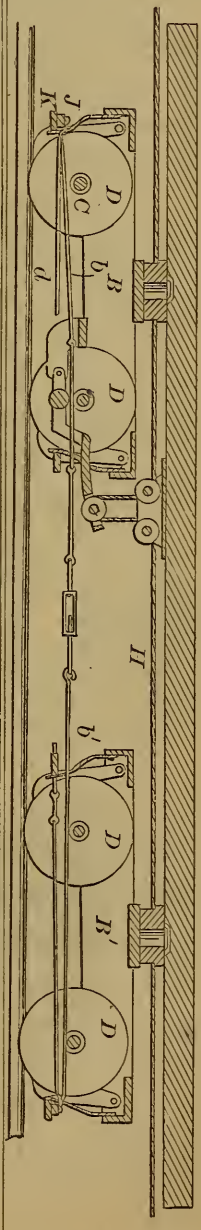
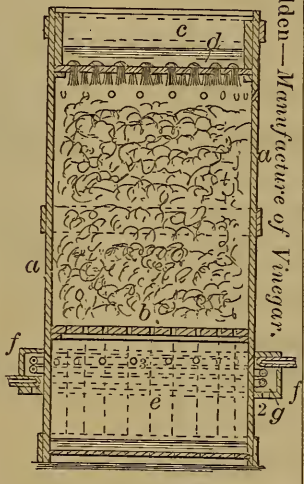


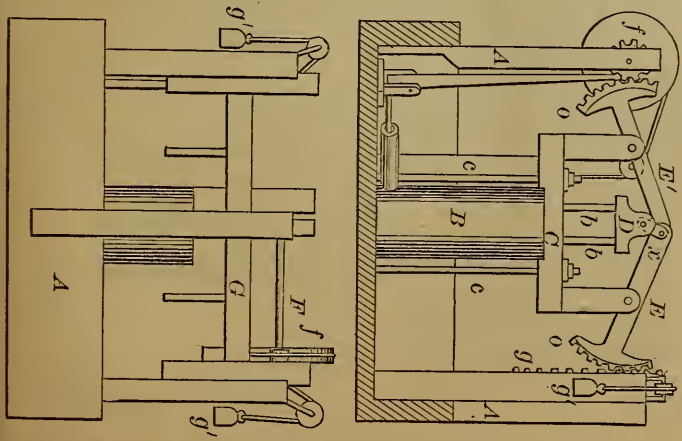
83422—Tatham & Steger—*Car Brake.*



83423—H. A. Tilden—*Manufacture of Vinegar.*



83424—J. B. Tunstall—*Hydraulic Press.*



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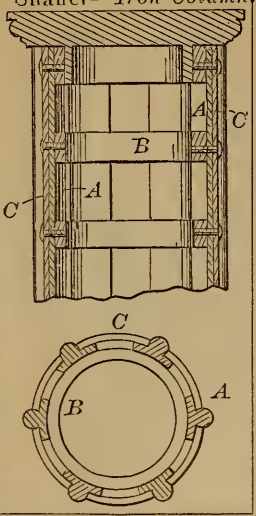
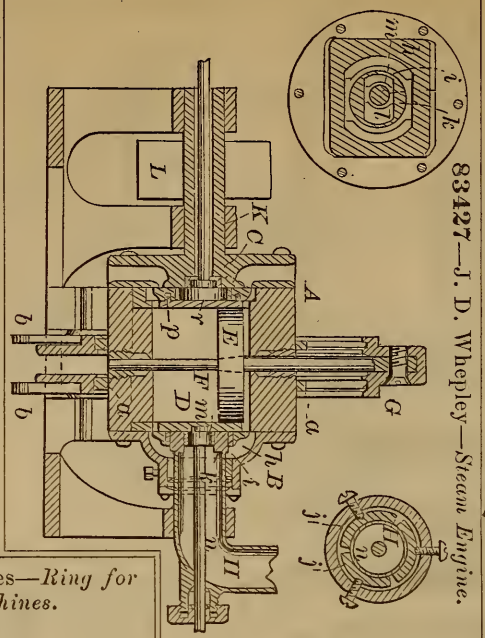
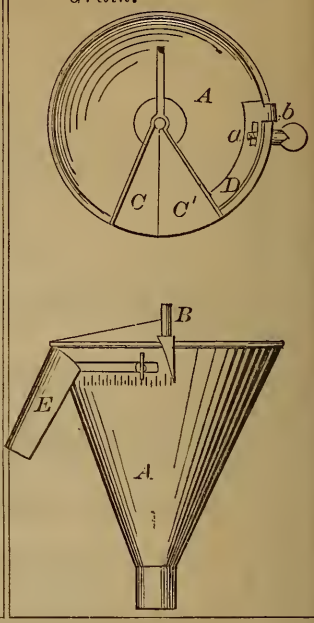


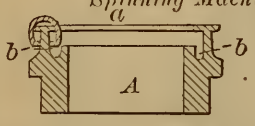
83427—J. D. Whepley—*Steam Engine.*



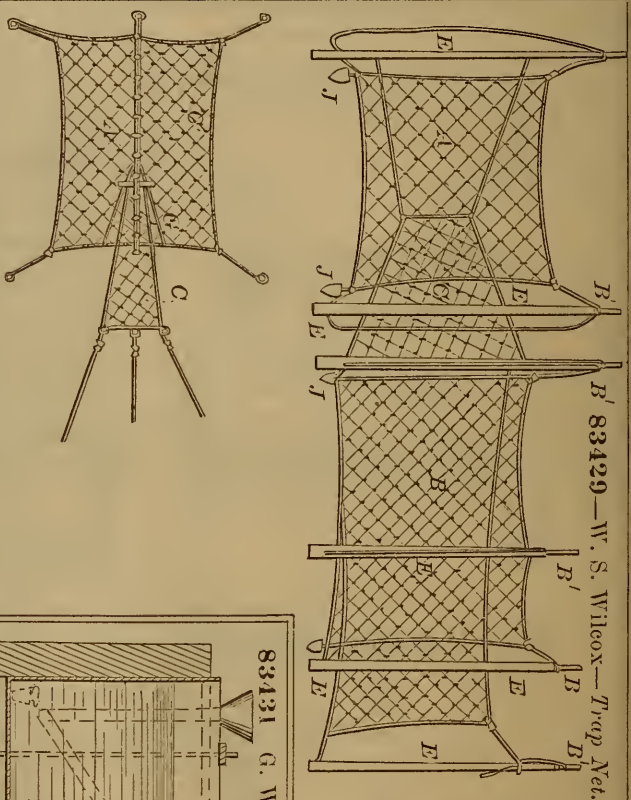
83428—Widger & Read—*For Tolling Grain.*



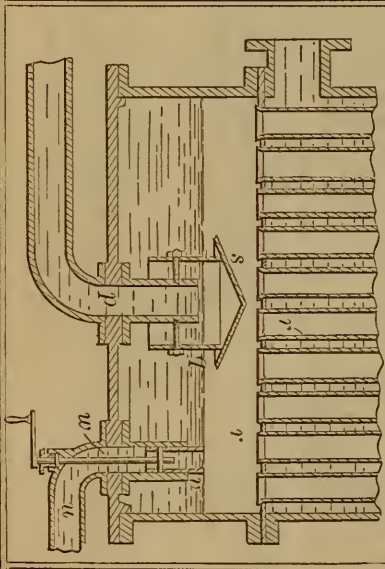
83426—J. W. Wattles—*Ring for Spinning Machines.*



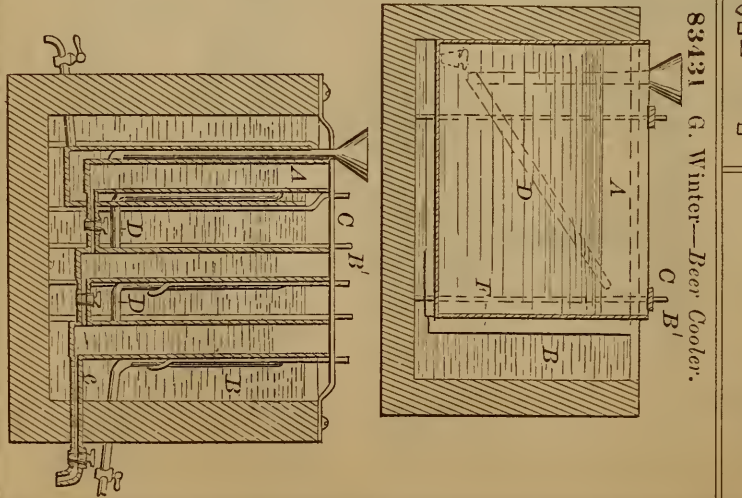
83429—W. S. Wilcox—*Trap Net.*



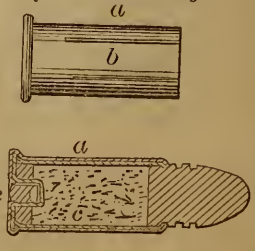
83430—W. L. & T. Winans—*Condenser.*



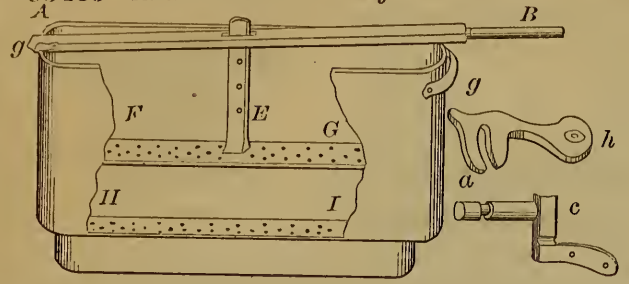
83431 G. Winter—*Beer Cooler.*



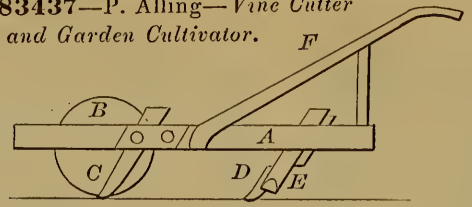
83434—Abraham & Bayliss—*Cartridge.*



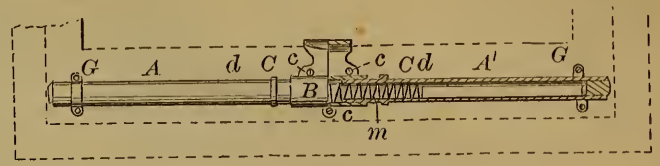
83435—A. T. Adams—*Washing Machine.*



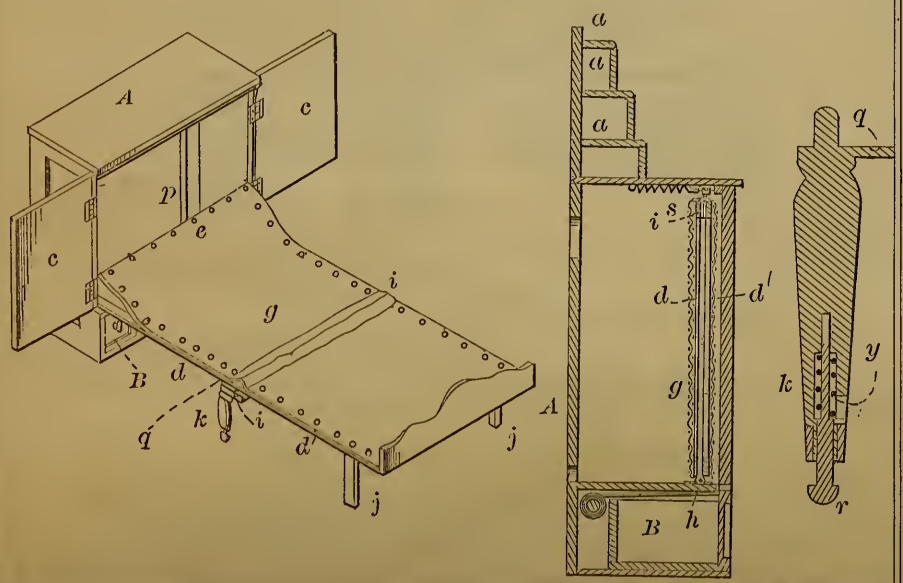
83437—P. Alling—*Vine Cutter and Garden Cultivator.*



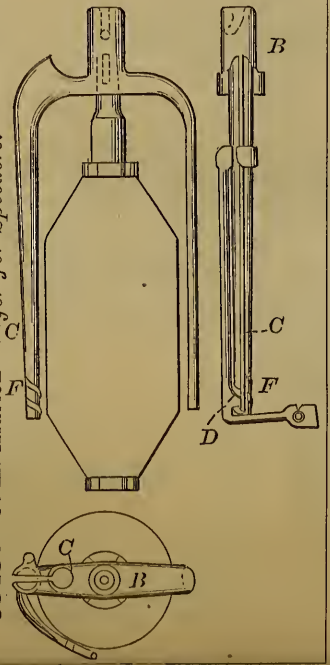
83439—D. Armstrong—*Sash Fastener.*



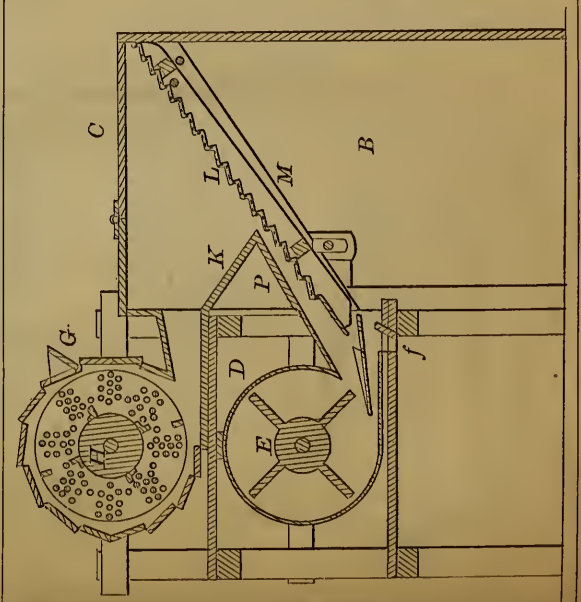
83432—A. A. Young—*Wardrobe Bedstead.*



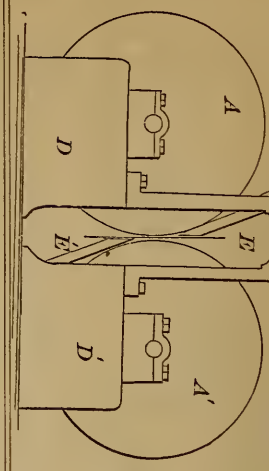
83436—J. H. Aldrich—*Flyer for Speeders.*



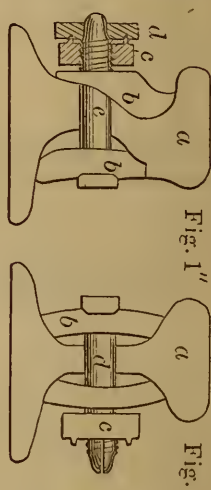
83438—J. E. Anderson—*Grain Cleaner.*



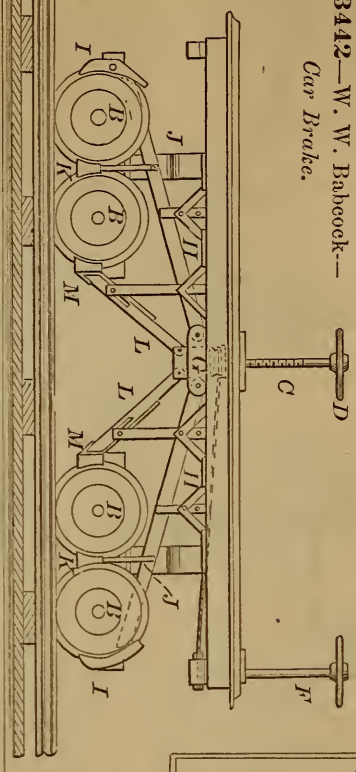
83443—J. G. Baker—*Saw Grinding Machine.*



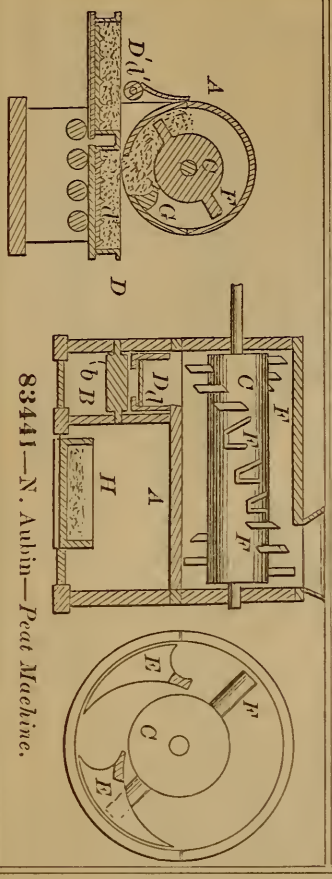
83446—S. A. Beers—*Railroad Rail Splice.*



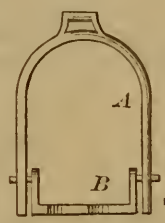
83442—W. W. Babcock—*Car Brake.*



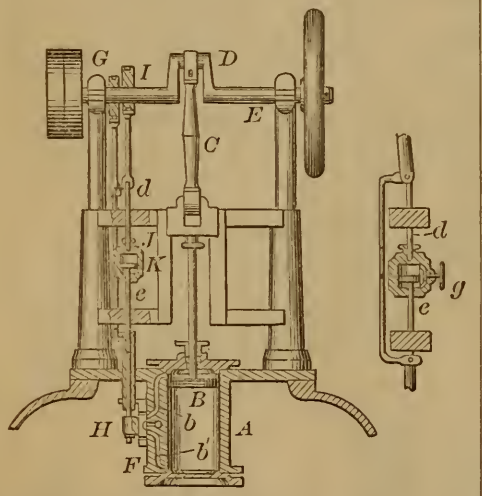
83441—N. Aubin—*Peat Machine.*



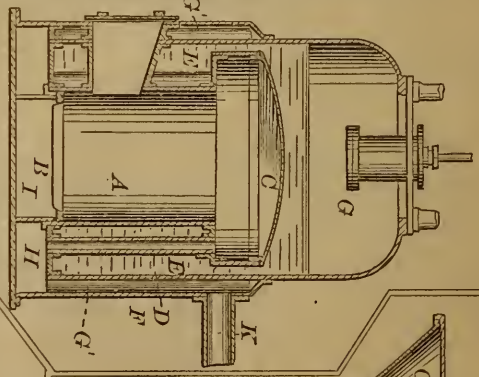
83450—J. Bond—*Stirrup.*



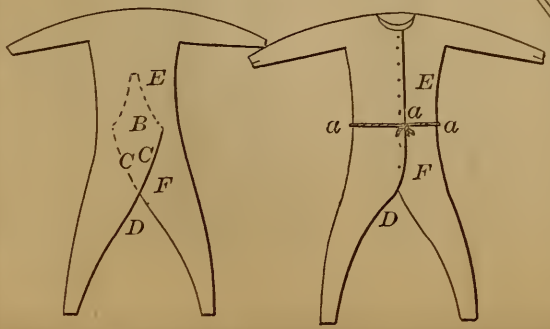
83444—W. Baxter—*Steam Engine Valve.*



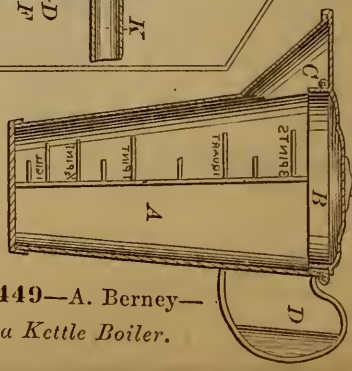
83445—W. Baxter—*Steam Generator.*



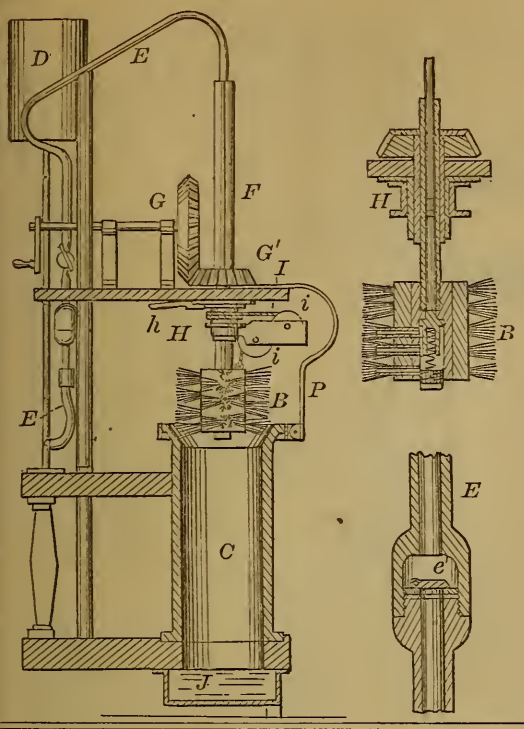
83447—E. S. Bennett—*Shirt and Drawers.*



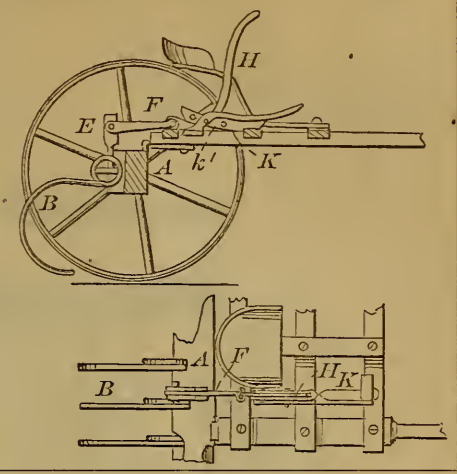
83449—A. Berney—*Tea Kettle Boiler.*



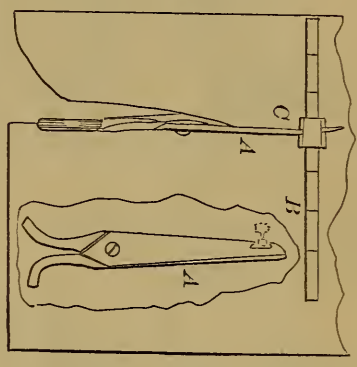
83448—B. S. Benson—*Mould Blacking Machine.*



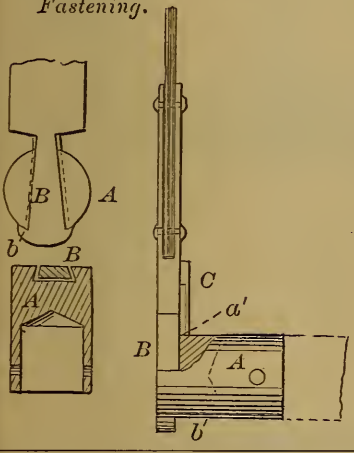
83452—S. C. Brinser—*Horse Rake.*



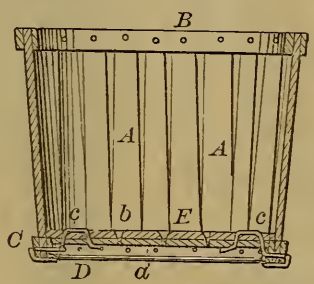
83453—S. H. Brisbane—*Scissors.*



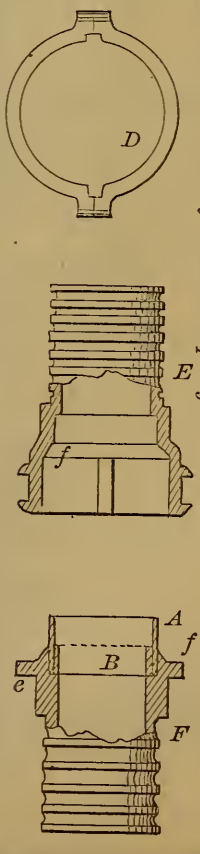
83454—J. Brown—*Trace Fastening.*



83459—H. Carpenter—*Basket.*



83455—Bull & Shelley—*Hose Coupling.*



83456—F. L. Cagwin—*Spading Plow.*

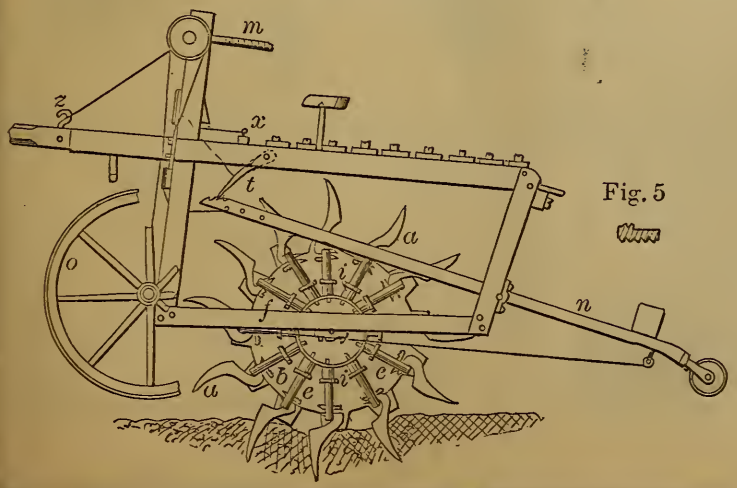
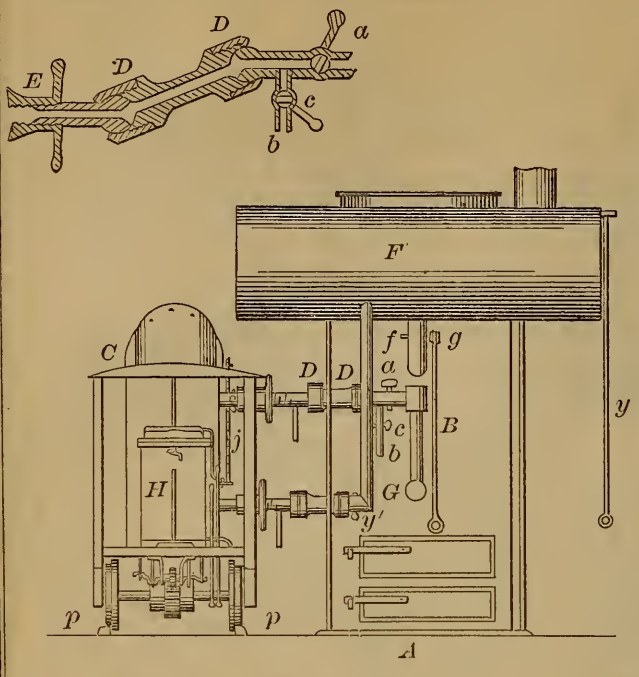
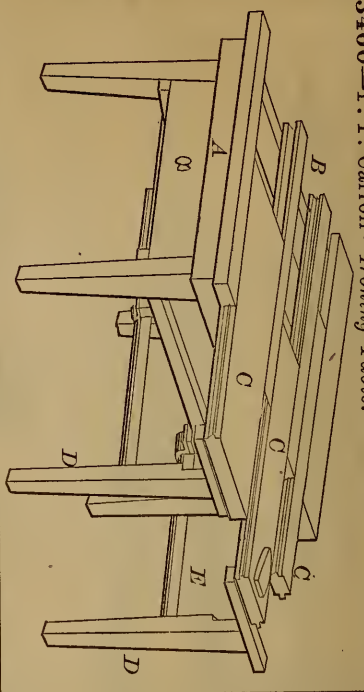


Fig. 5

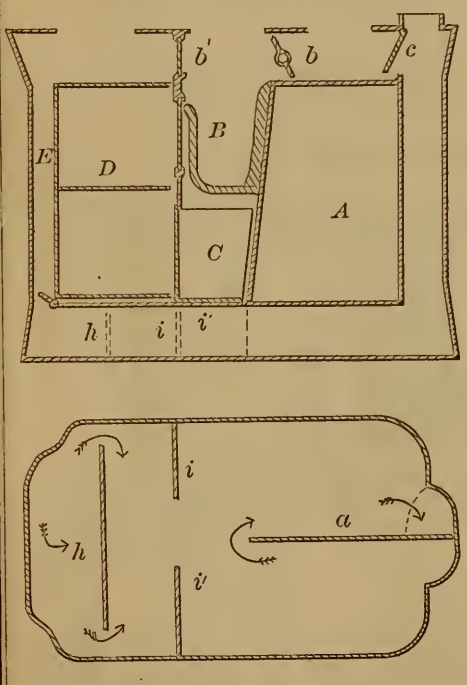
83457—C. W. Cahoon—*Steam Generator.*



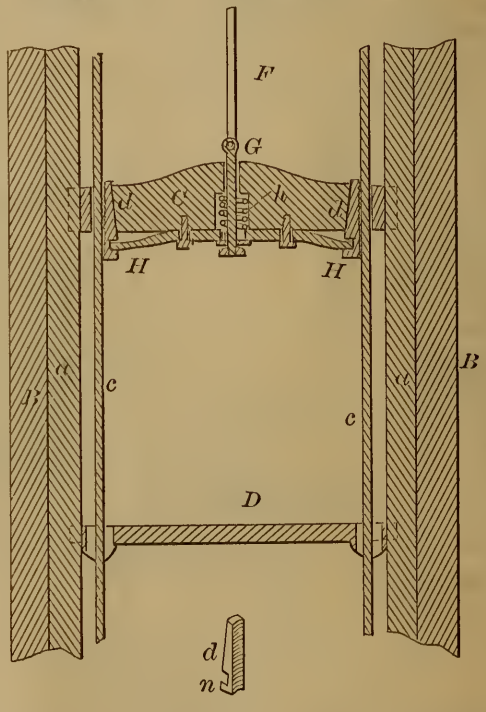
83460—P. P. Carroll—*Ironing Table.*



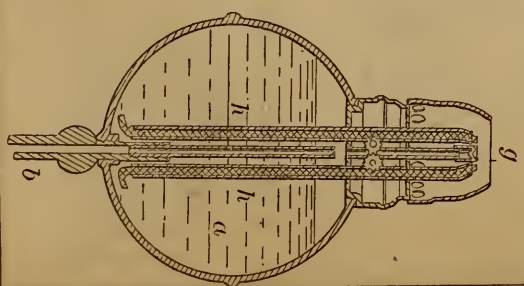
83458—E. Card—*Cooking Stove.*



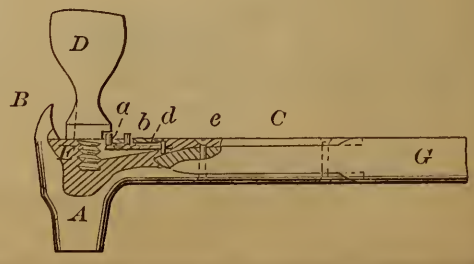
83461—D. H. Chamberlain—*Elevator.*



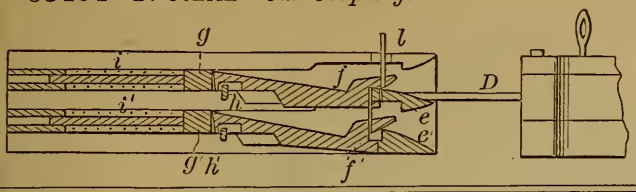
83462—T. Clough—*Lamp.*



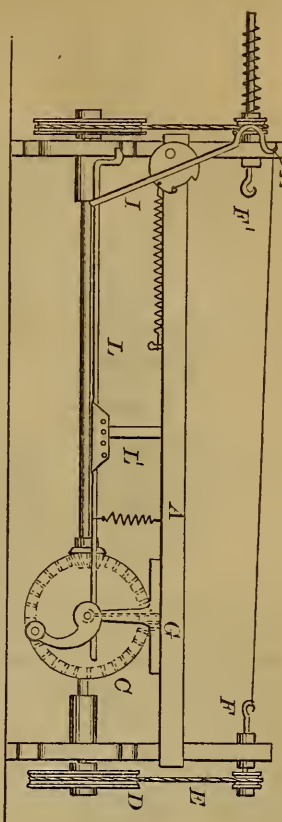
83463—T. S. Coffin—*Hammer.*



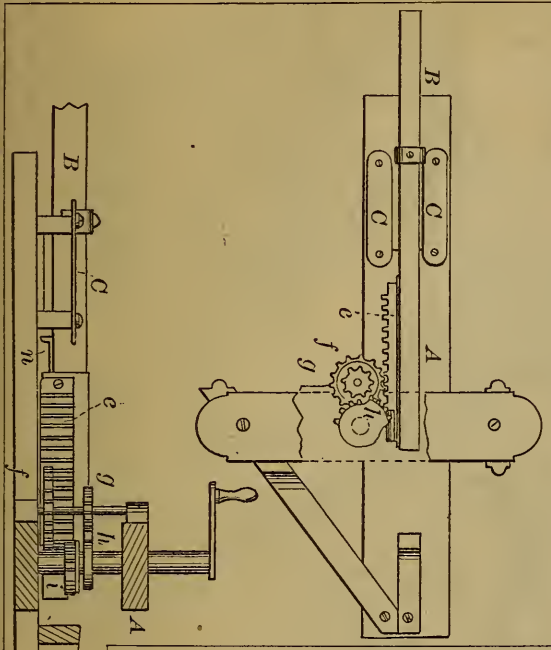
83464—F. Coffrin—*Car Coupling.*



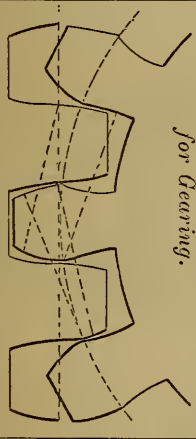
83465—J. Collier—*For Twisting Jack Bands.*



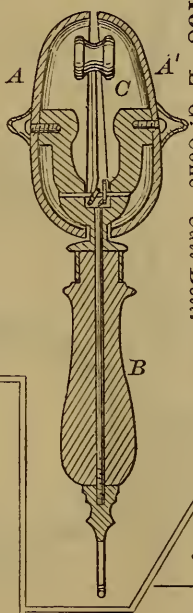
83466—W. S. Colwell—*Stave Machine.*



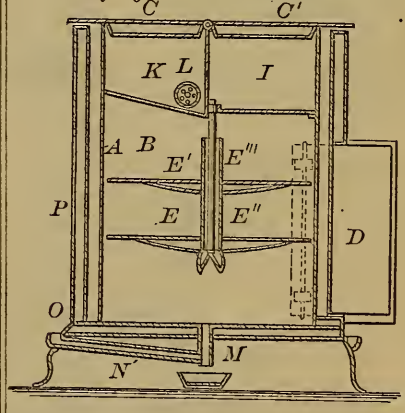
83469—H. I. Crandall—*Cog Wheel for Gearing.*



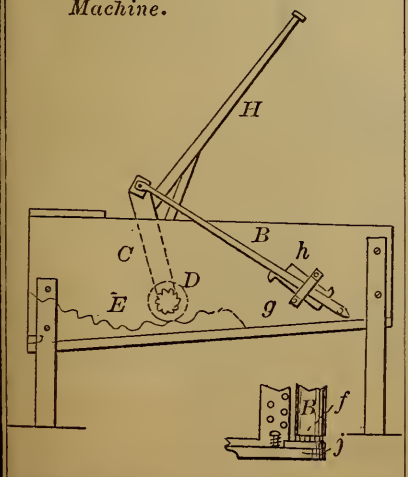
83468—E. G. Cone—*Call Bell.*



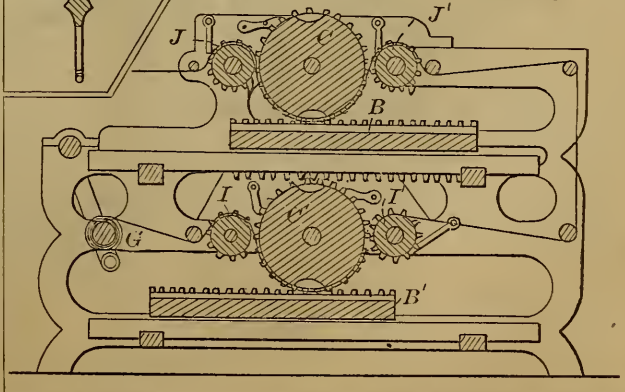
83467—Comstock & Cherry—*Refrigerator and Cooler.*



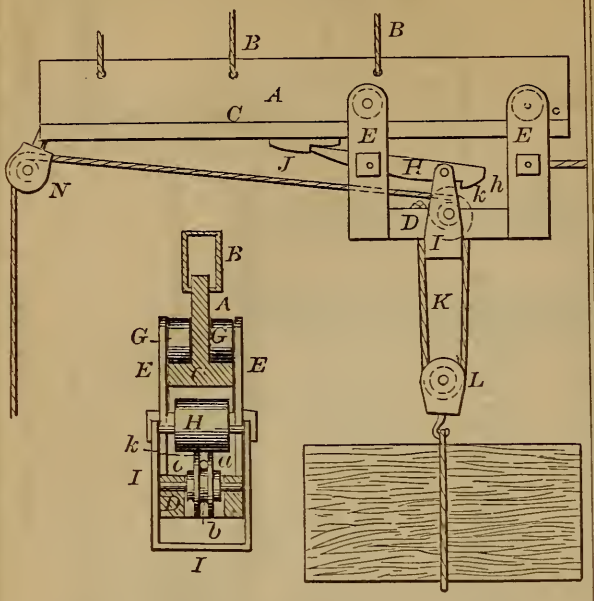
83473—J. Dare—*Washing Machine.*



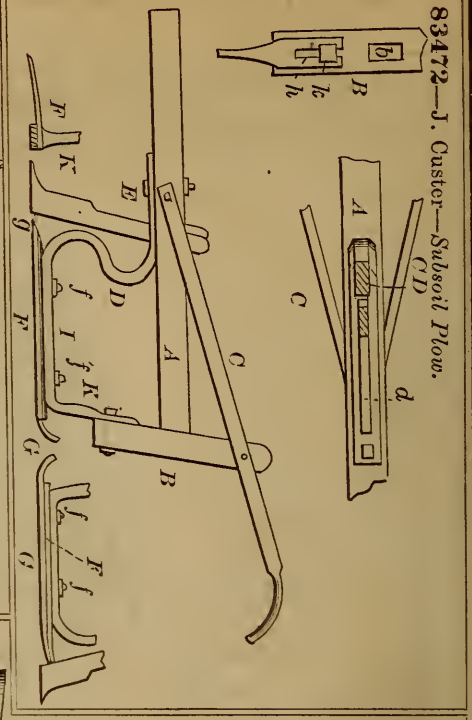
83471—R. Cummings—*Printing Press.*



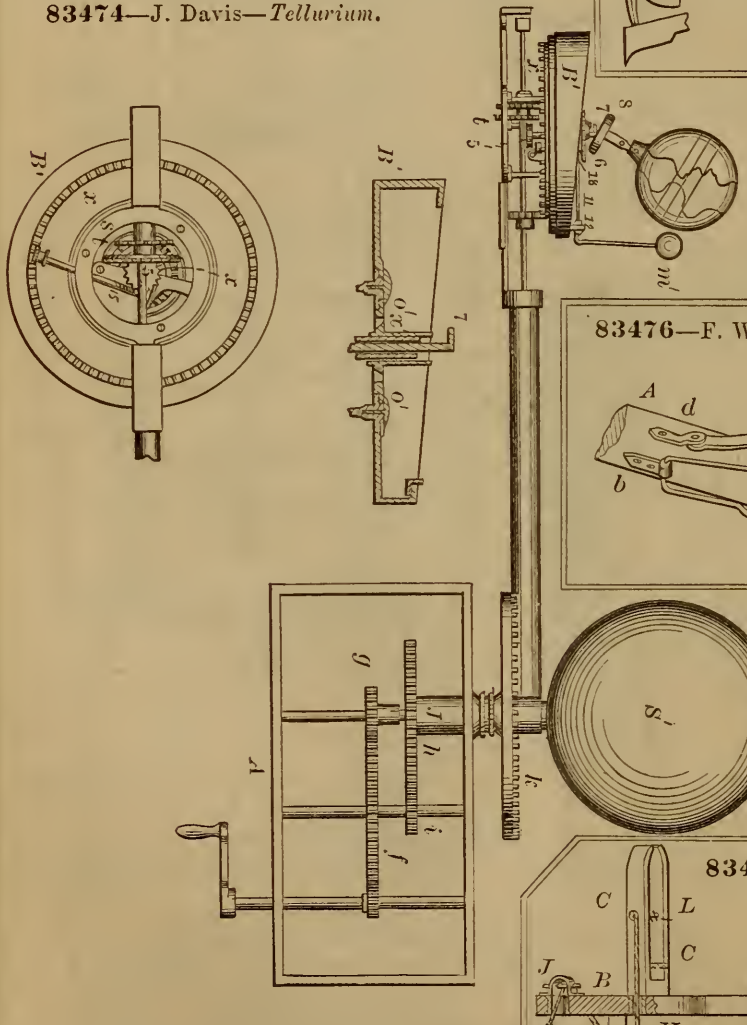
83470—F. A. Crane—*Hay Elevator.*



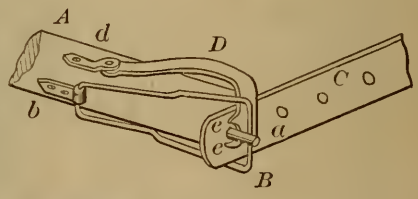
83472—J. Custer—*Subsoil Plow.*



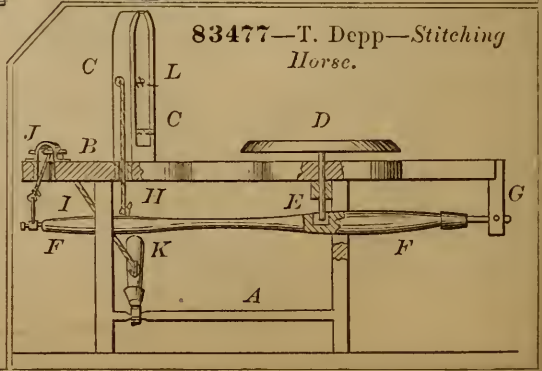
83474—J. Davis—*Tellurium.*



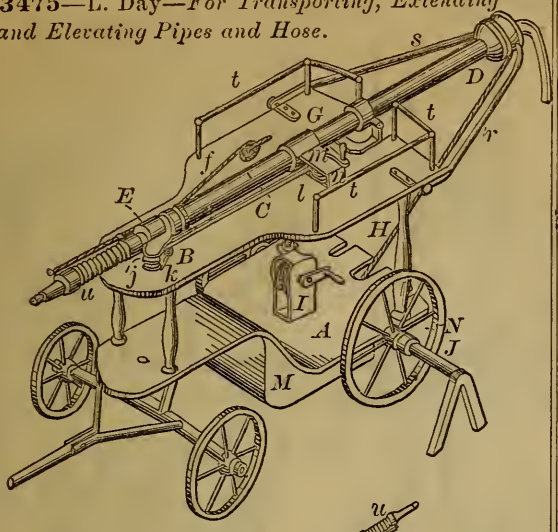
83476—F. W. Dean—*Trace Fastener.*

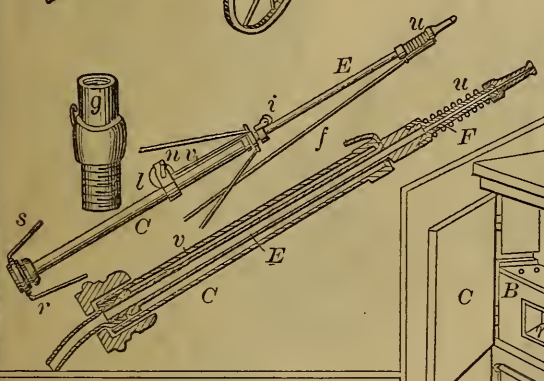


83477—T. Depp—*Stitching Horse.*

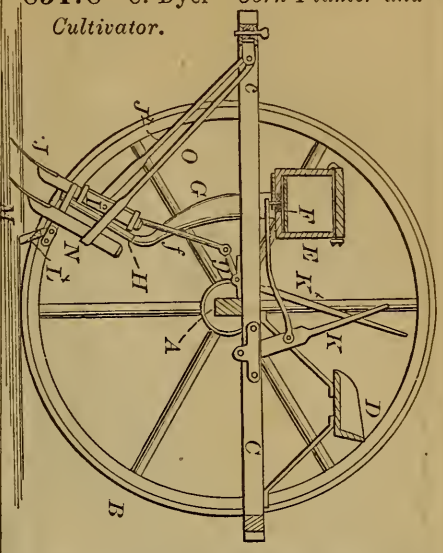


83475—L. Day—*For Transporting, Extending and Elevating Pipes and Hose.*

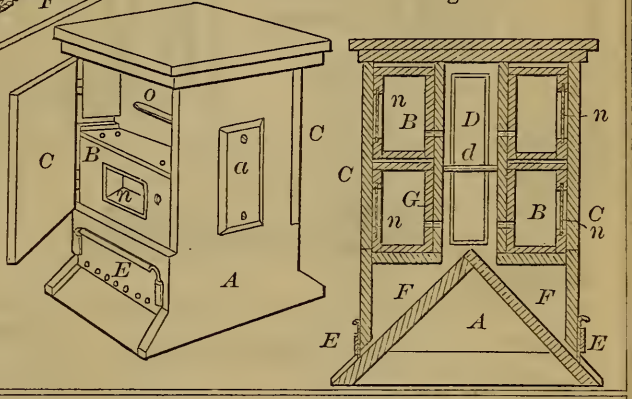




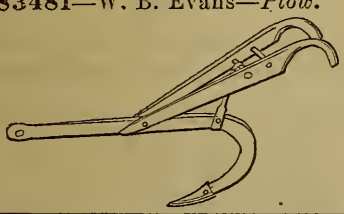
83478—C. Dyer—*Corn Planter and Cultivator.*



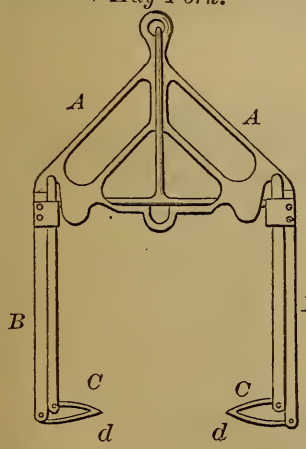
83479—D. Edge—*Beehive.*



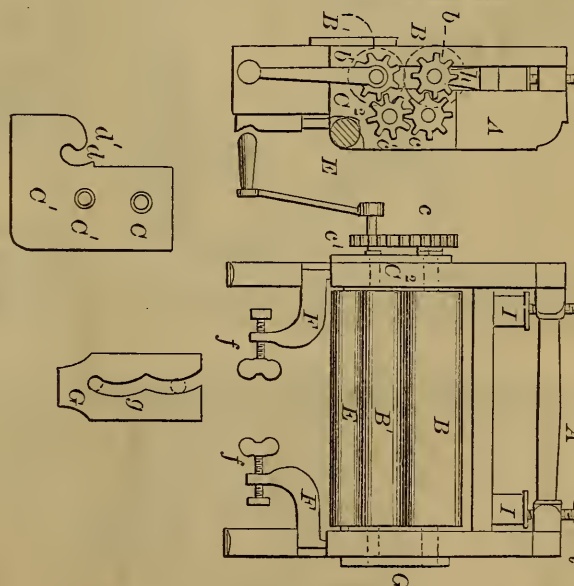
83481—W. B. Evans—*Plow.*



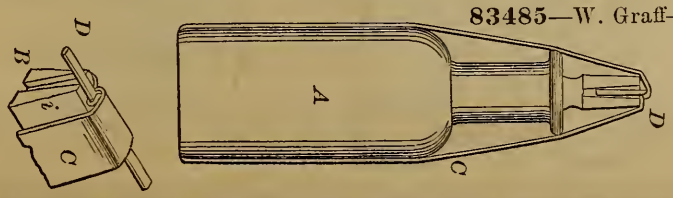
83482—J. Gilmore—*Horse Hay Fork.*



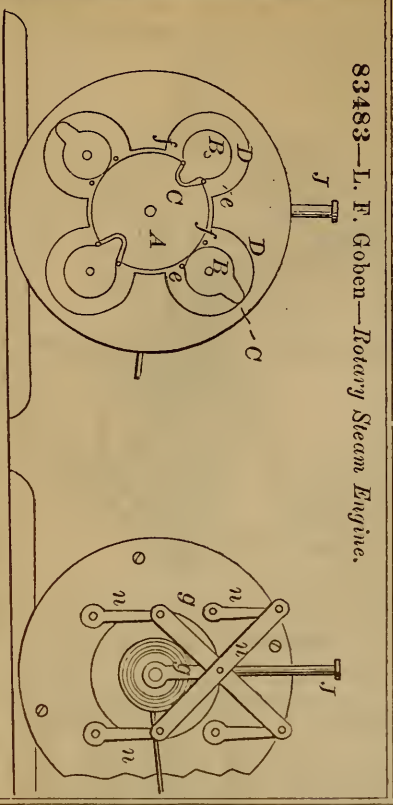
83480—S. E. Emerson—*Wringing Machine.*



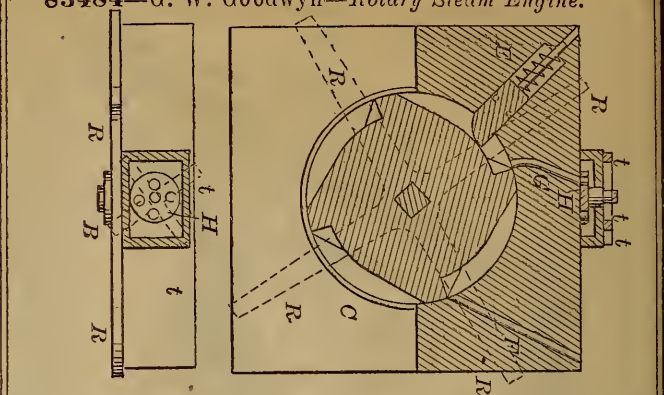
83485—W. Graff—*Bottle Stopper.*



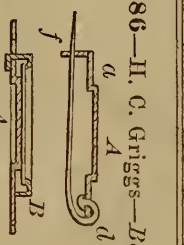
83483—L. F. Goben—*Rotary Steam Engine.*



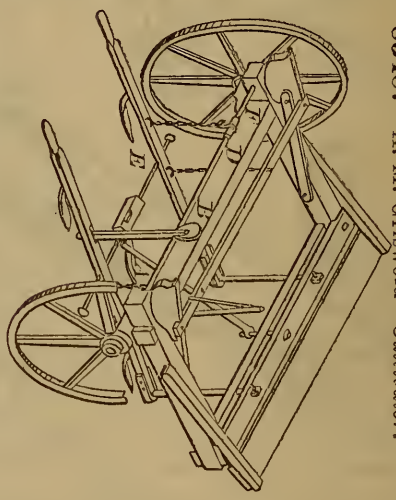
83484—G. W. Goodwyn—*Rotary Steam Engine.*



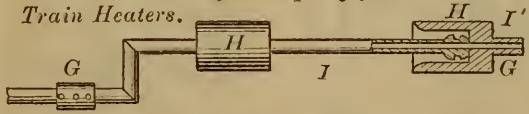
83486—H. C. Griggs—*Budge.*



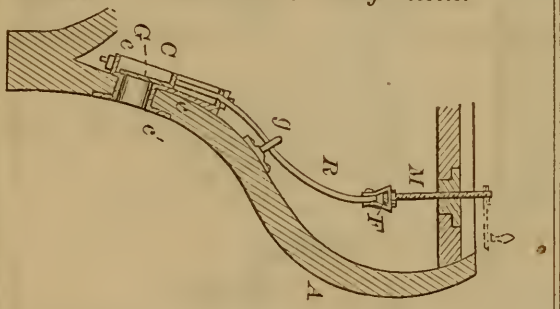
83487—A. M. Griswold—*Cultivator.*



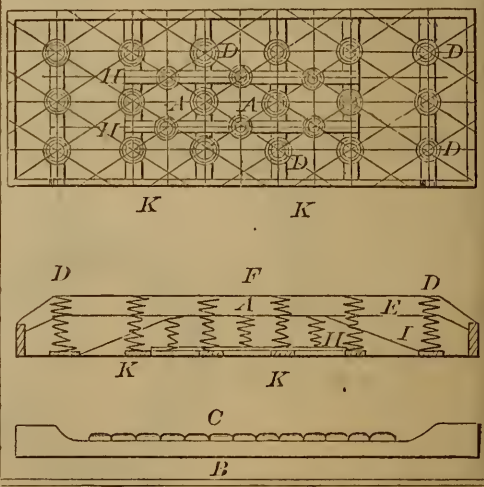
83488—J. R. Guy—*Coupling for Railroad Train Heaters.*



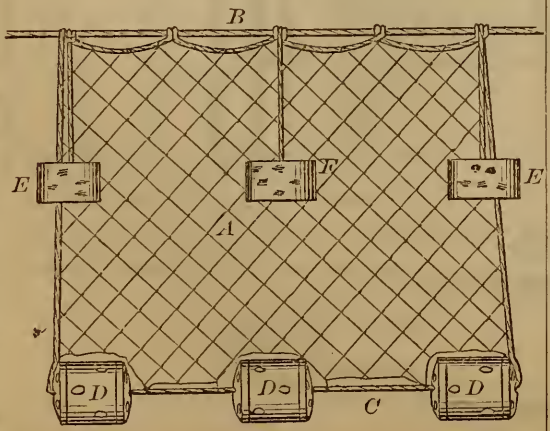
83490—J. Hall—*For Scuttling Vessels.*



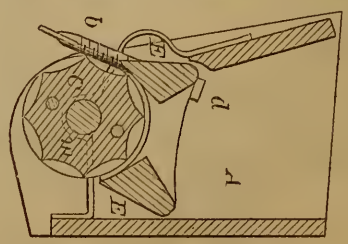
83489—C. Hacker—*Spring Bed Bottom.*



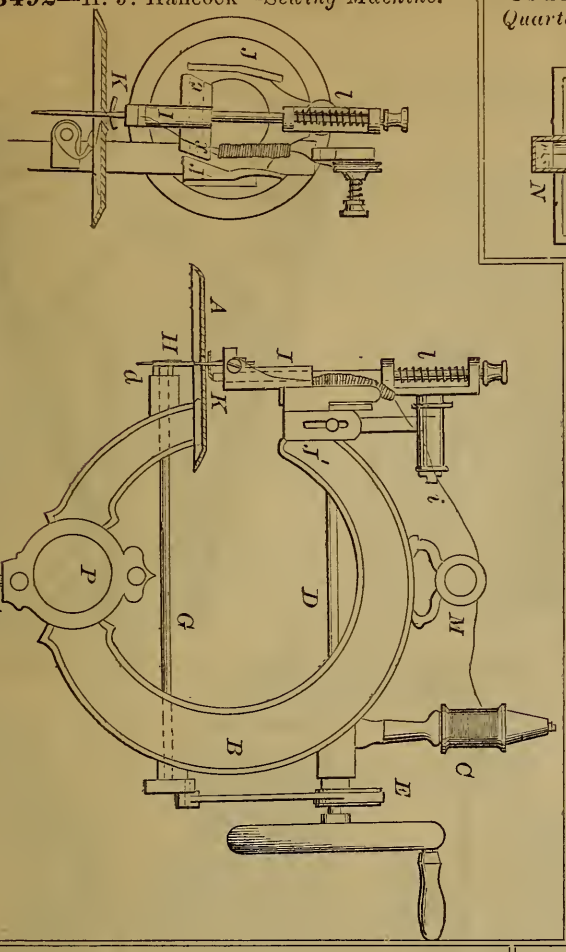
83493—S. Harper—*Fishing Net.*



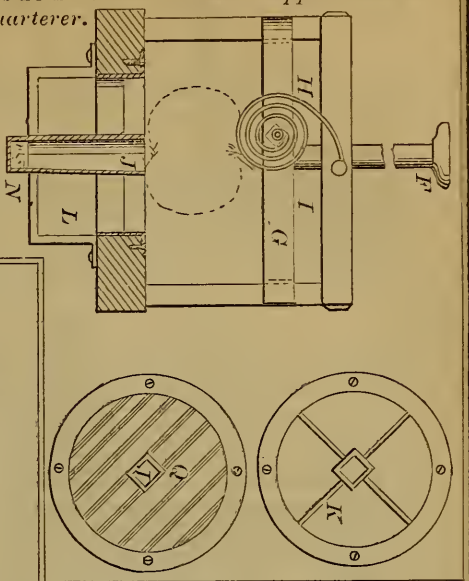
83491—W. N. Hamilton—*Grain Drill.*



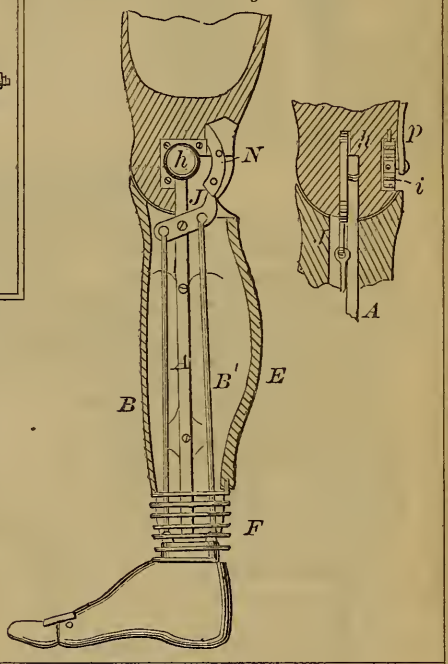
83492—H. J. Hancock—*Sewing Machine.*



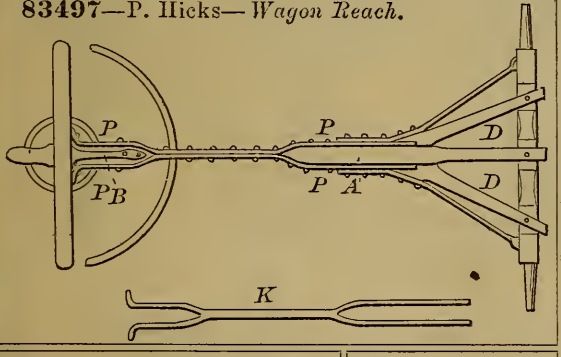
83494—J. M. Hassam—*Apple Corer and Quarterer.*



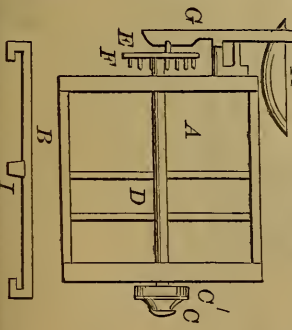
83496—G. B. Head—*Artificial Leg.*



83497—P. Hicks—*Wagon Reach.*

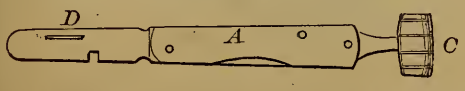


83498—A. D. Hoffman—*Till Alarm.*

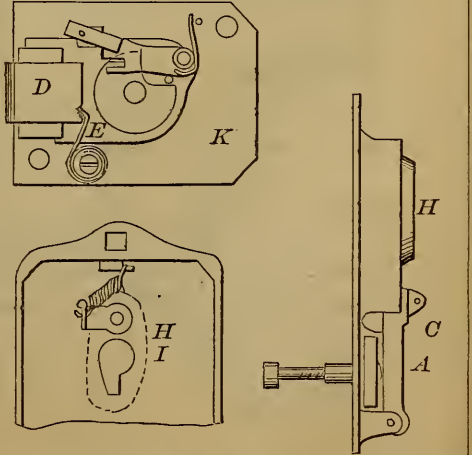


83501—S. Ivers—*Needle.*

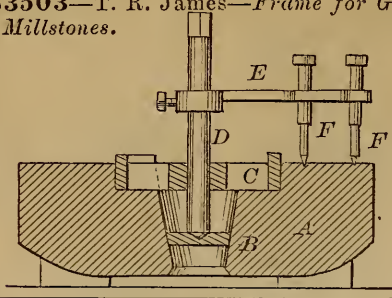
83499—L. Holtzscheiter—*Box Opener.*



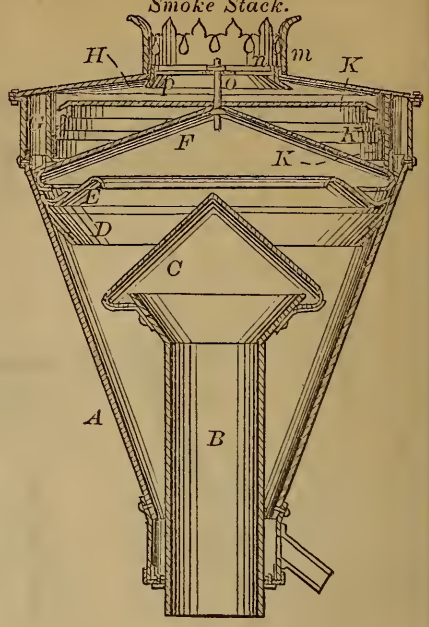
83500—M. G. Imbach—*Hasp Lock.*



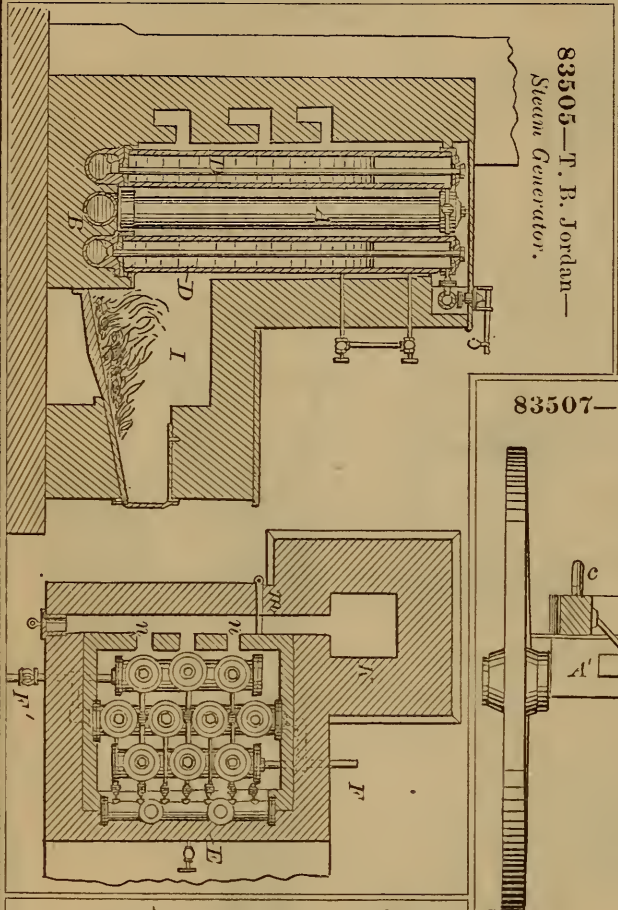
83503—T. R. James—*Frame for Gauging Millstones.*



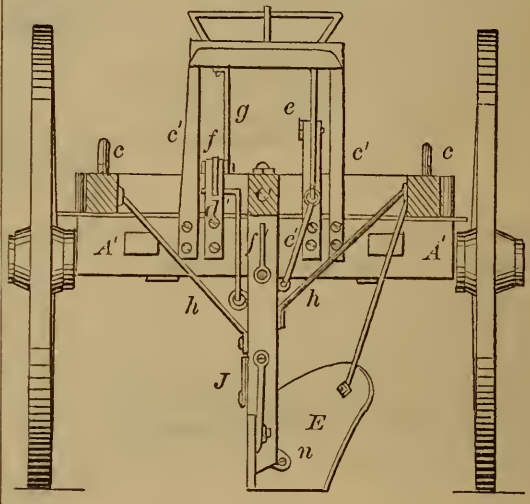
83506—J. A. W. Justi—*Locomotive Smoke Stack.*



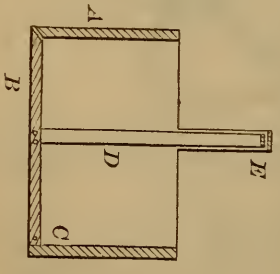
83505—T. B. Jordan—*Steam Generator.*

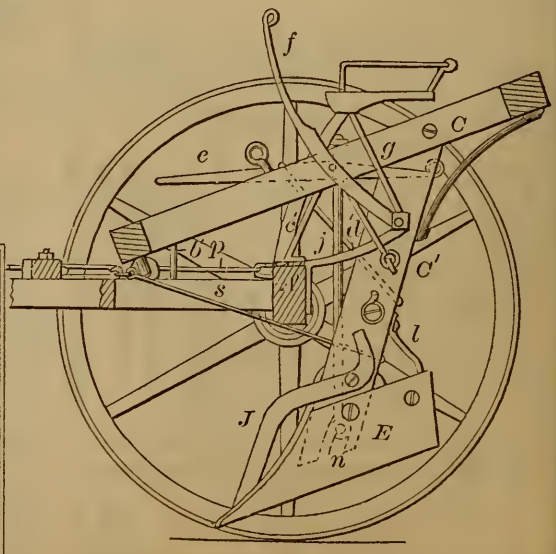


83507—J. Kay—*Plow.*

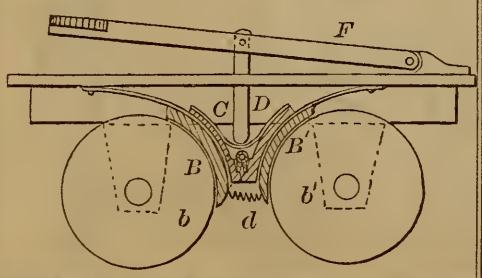


83504—T. B. Jones—*Fruit Box.*

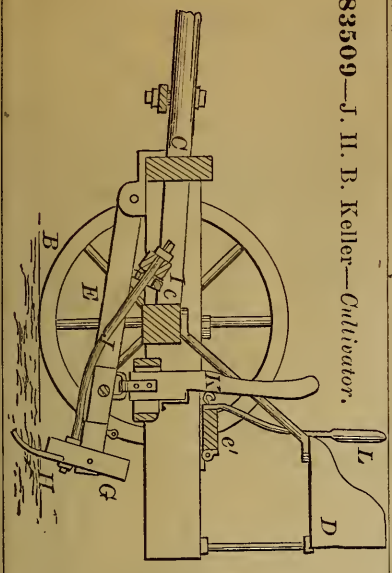




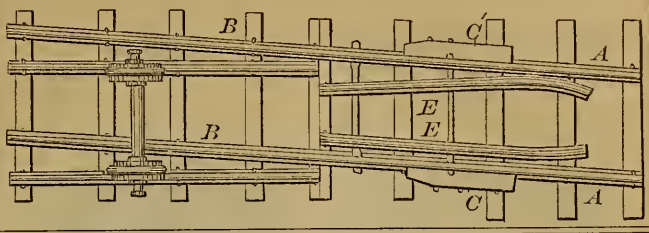
83508—P. Keffer—*Car Brake.*



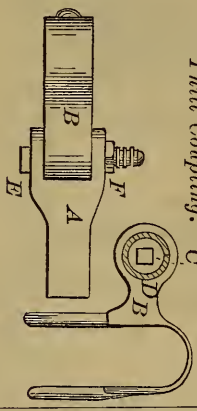
83509—J. H. B. Keller—*Cultivator.*



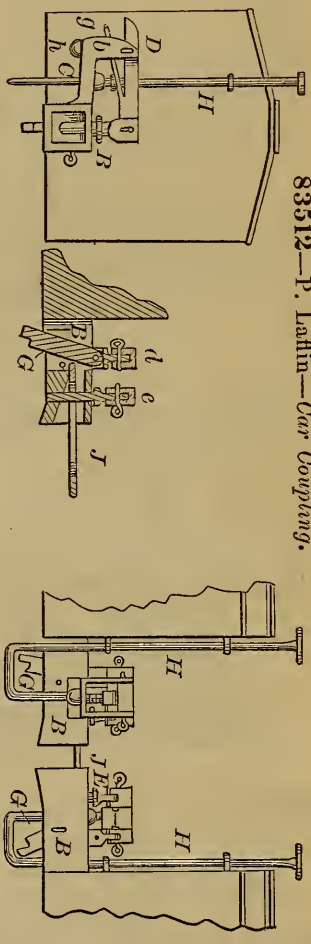
83510—M. Kelly—*Railroad Switch.*



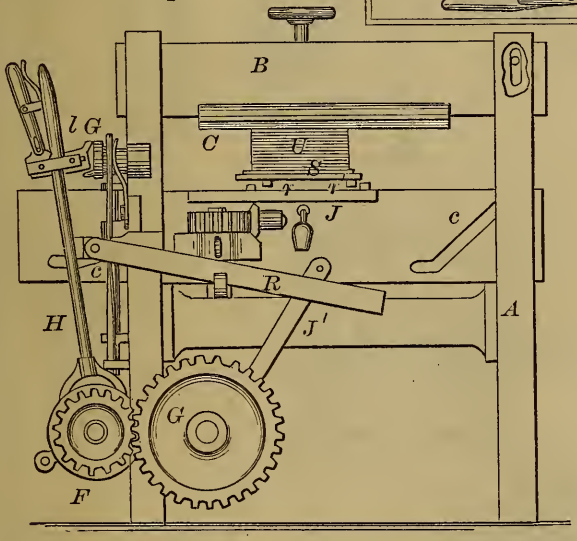
83511—W. W. Knowles—*Thill Coupling.*

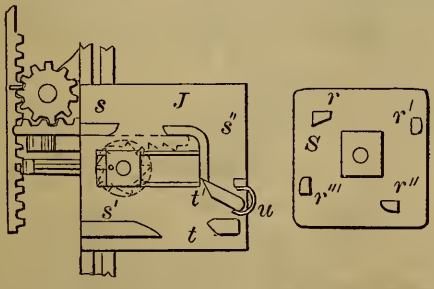


83512—P. Laflin—*Car Coupling.*

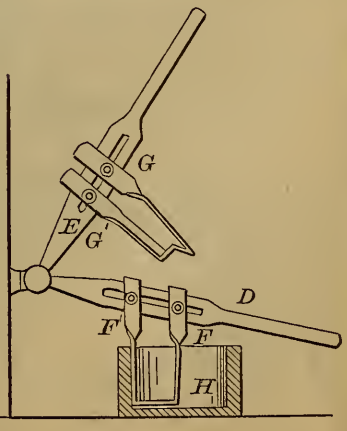


83513—H. Law—*For Cutting Paper.*

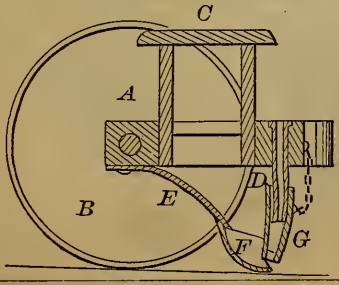




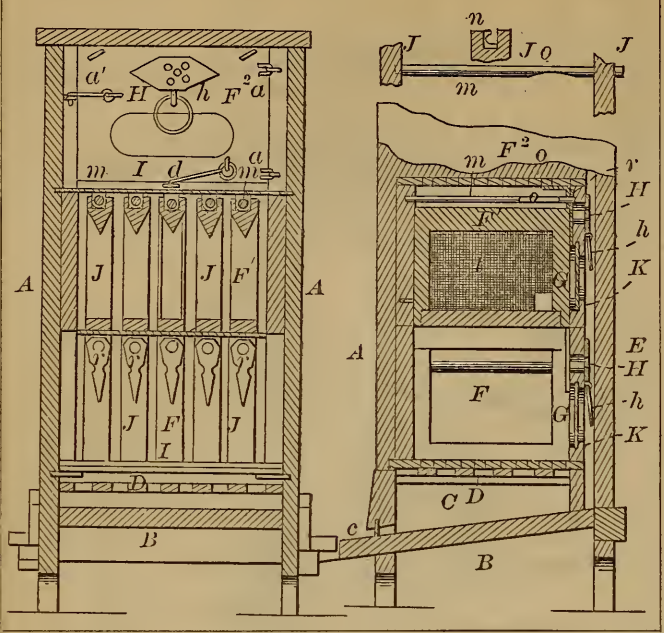
83515—A. W. Loomis—*Gauge for Stone Ware.*



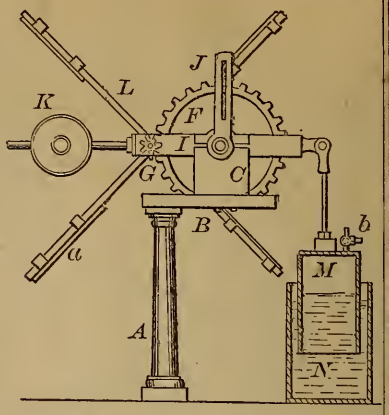
83517—J. T. Lynam—*Grain Drill.*



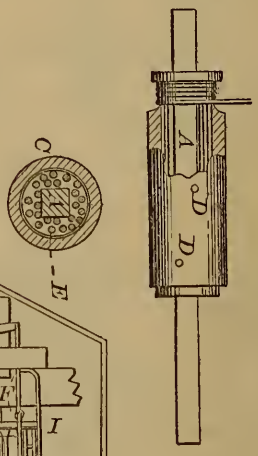
83514—B. Leckrone—*Beehive.*



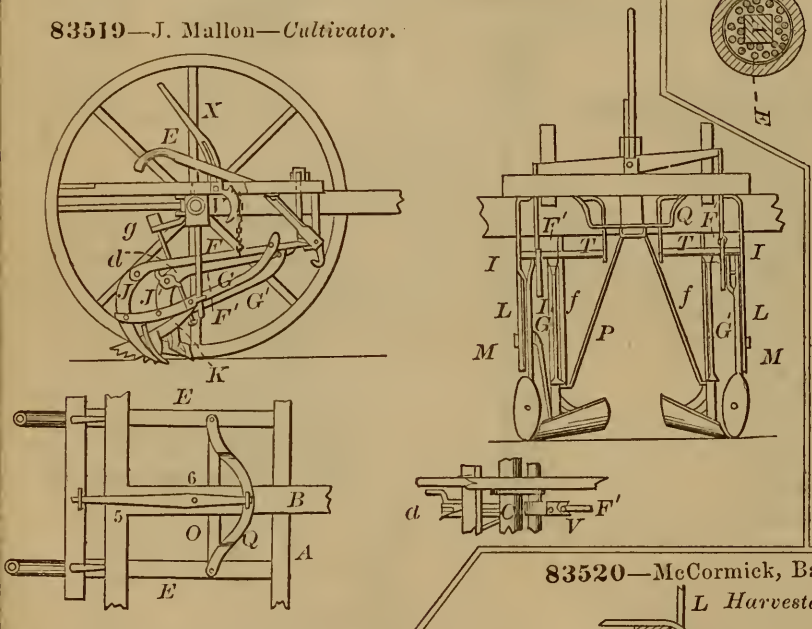
83516—J. T. Lossen—*Governor.*



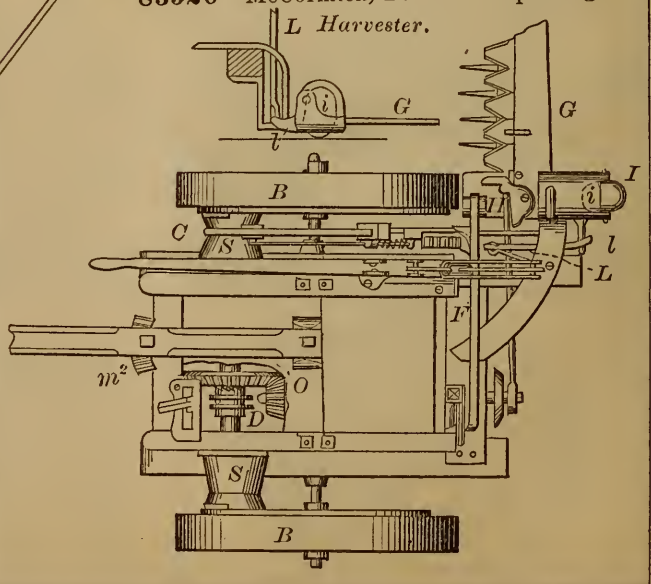
83518—A. Magowan—*Wringer Roller.*



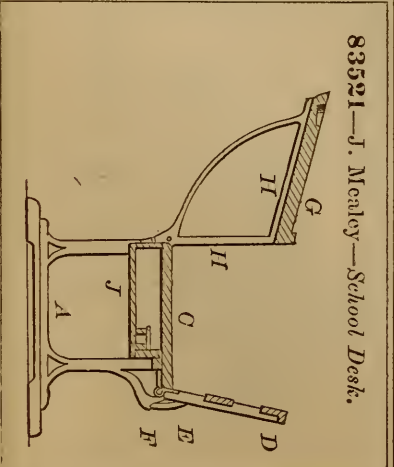
83519—J. Mallon—*Cultivator.*



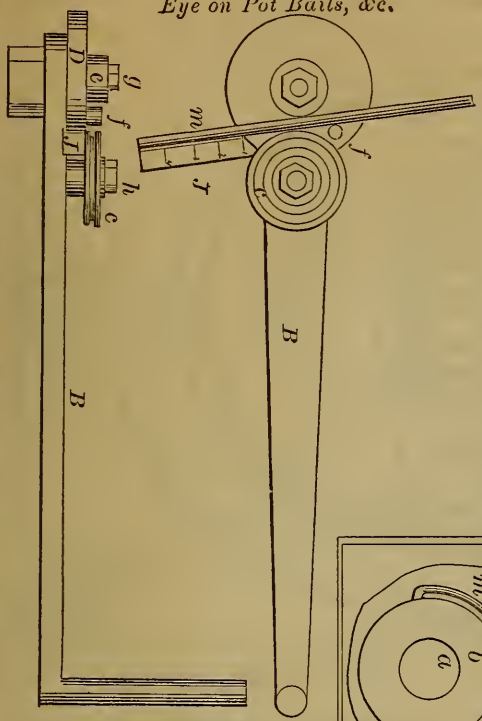
83520—McCormick, Baker & Expelding—*Harvester.*



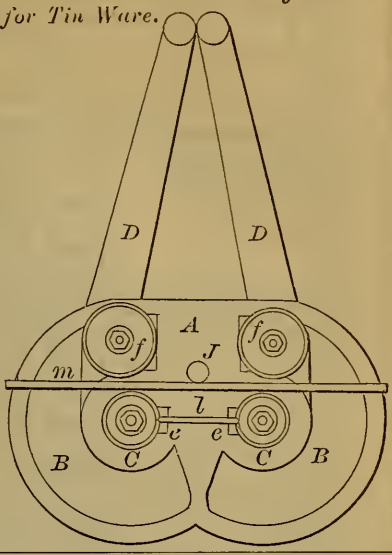
83521—J. Mealey—*School Desk.*



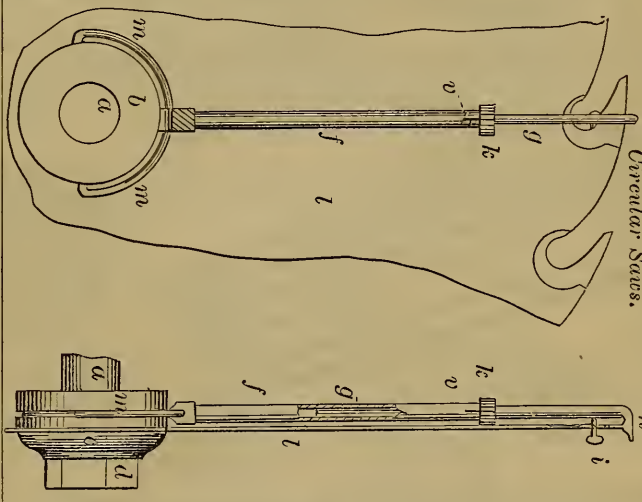
83522—J. Miller—*For Forming the Hook or Eye on Pot Bails, &c.*



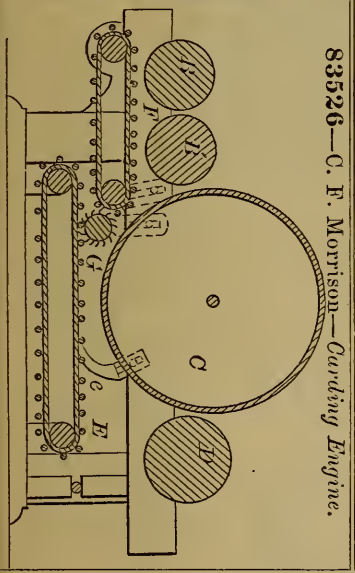
83523—J. Miller—*For Bending Oval Handles for Tin Ware.*



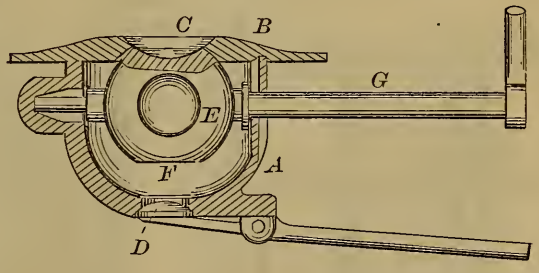
83524—W. P. Miller—*Gauge for Circular Saws.*



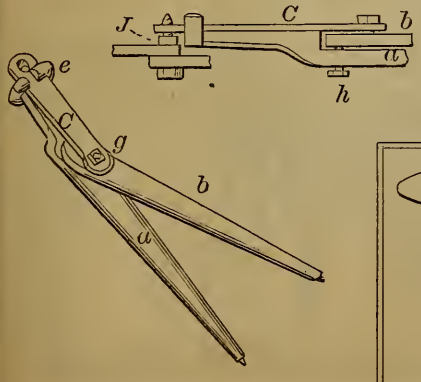
83526—C. F. Morrison—*Carding Engine.*



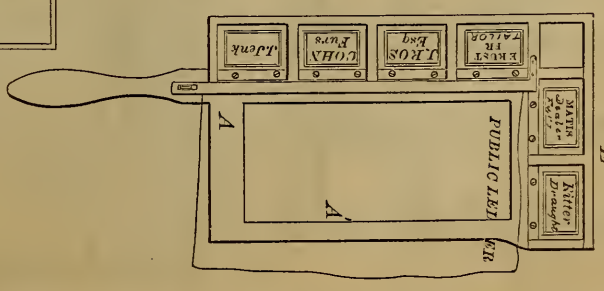
83530—O. G. Newton—*Tuyere.*



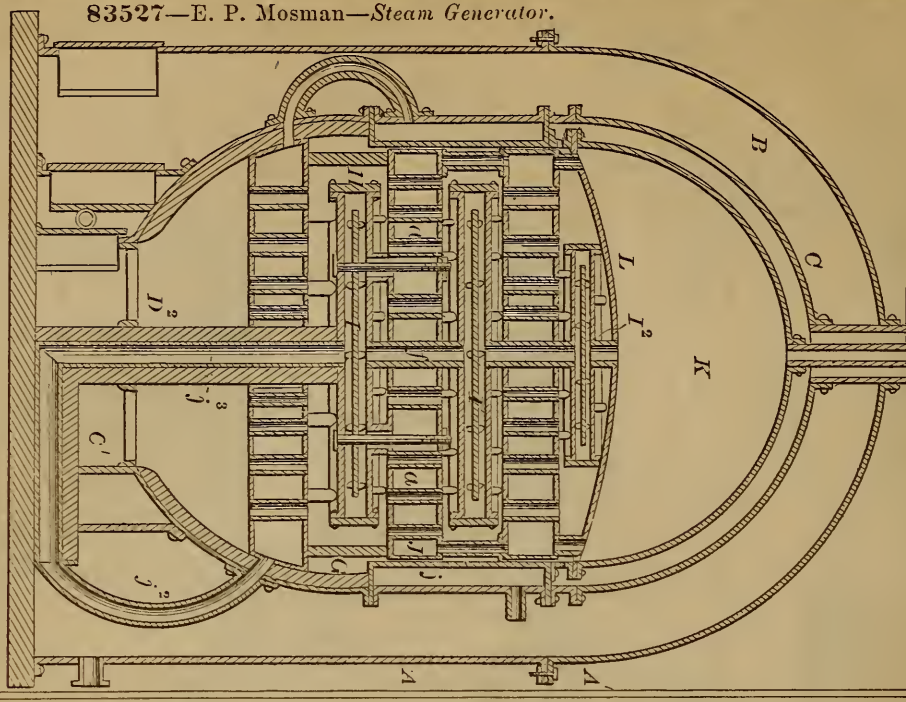
83525—T. W. Moore—*Bolt Cutter.*



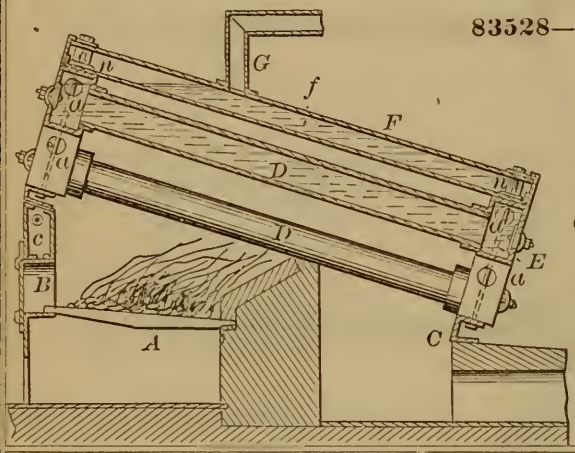
83531—Ney & Hofheimer—*Paper File.*

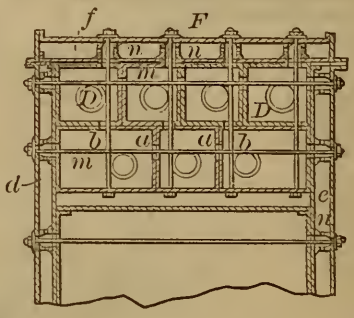


83527—E. P. Mosman—*Steam Generator.*



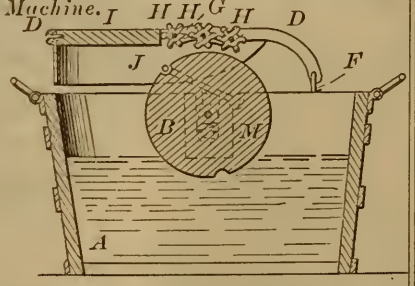
83528—T. H. Müller—*Steam Generator.*



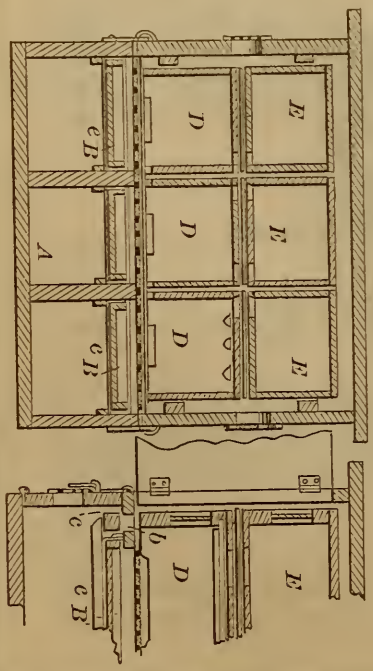


83534—C. H. Nye—*Bag Fastener.*

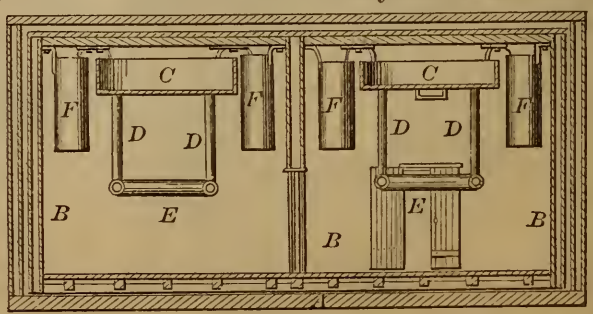
83535—E. F. O'Neill—*Washing Machine.*



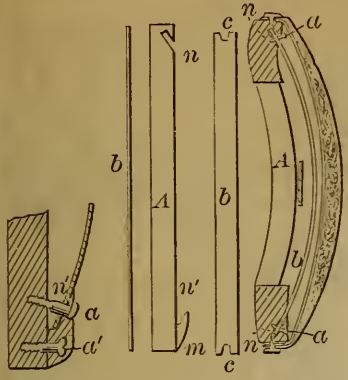
83532—A. Niebel—*Beehive.*



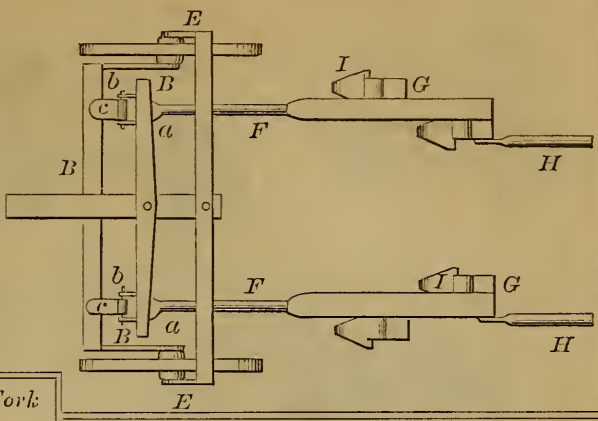
83533—P. Nunan—*For Preserving Fish, Meats, &c.*



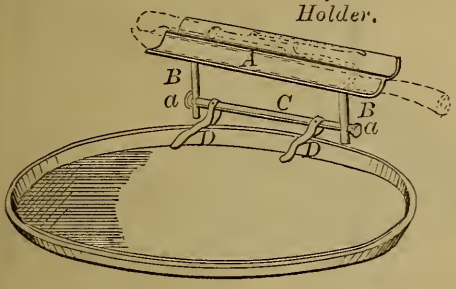
83536—W. H. Paige—*Seat Back.*



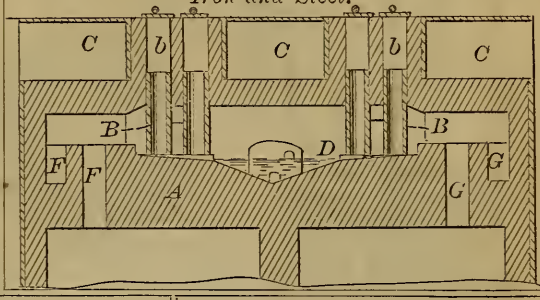
83537—C. J. Paine—*Corn Plow.*



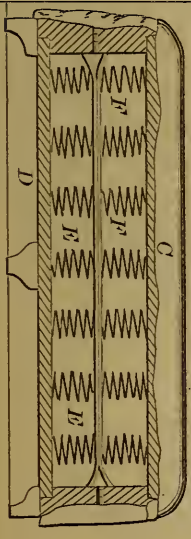
83538—J. W. Patten—*Knife and Fork Holder.*



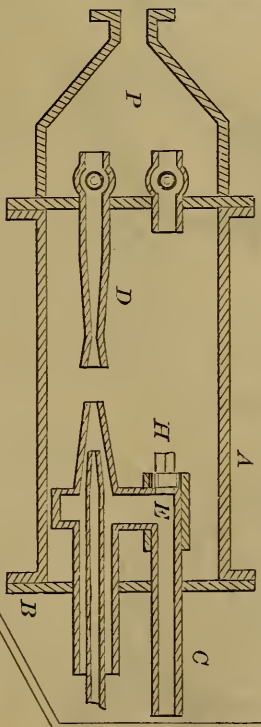
83542—A. Ponsard—*For the Manufacture of Iron and Steel.*



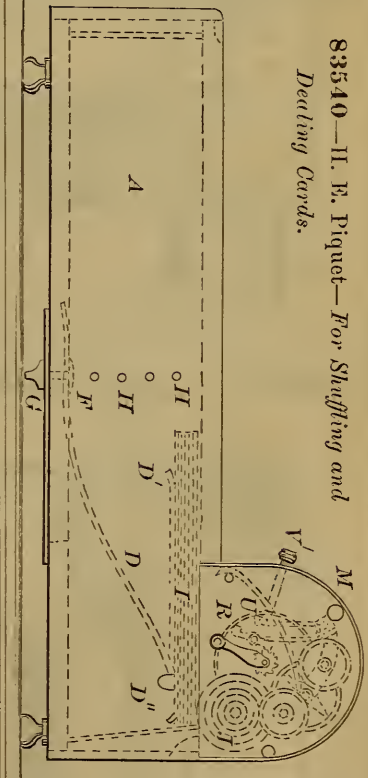
83544—J. D. Pratt—*Bed Lounge.*



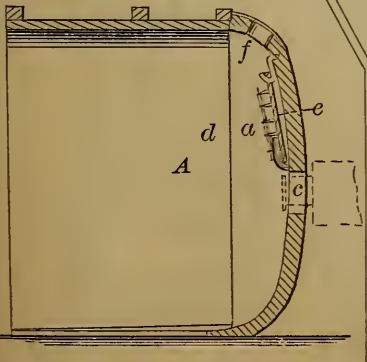
83543—L. B. Powelson—*Feed Water Heater.*



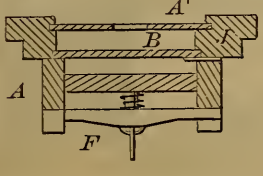
83540—H. F. Piquet—*For Shuffling and Dealing Cards.*



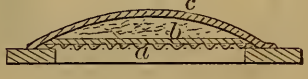
83545—G. K. Proctor—*Photographic Room.*



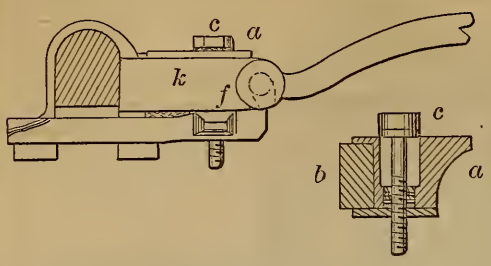
83548—B. Reed—*Photographic Printing Frame.*



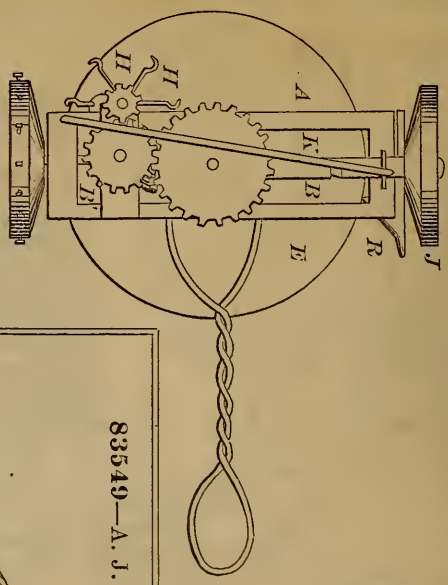
83541—C. Platt—*Chair Seat.*



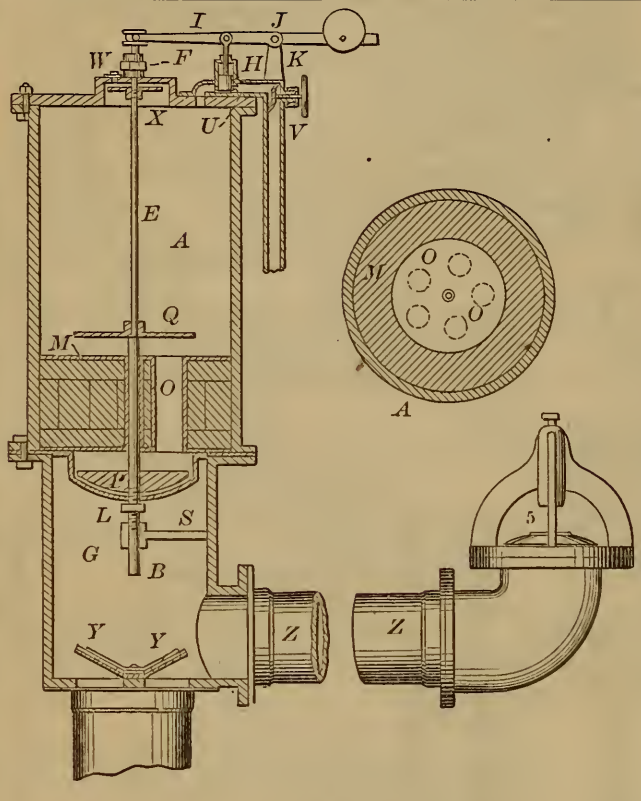
83546—R. Pyle—*Thill Coupling.*



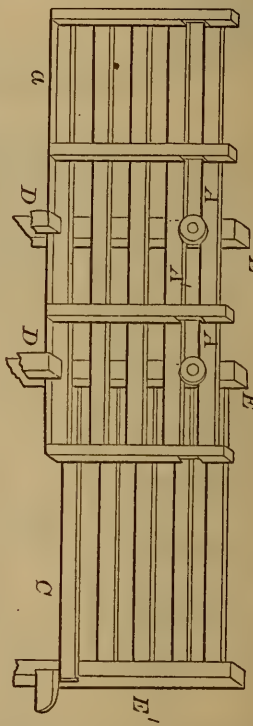
83547—J. M. Rugsdale—*Road Grader.*



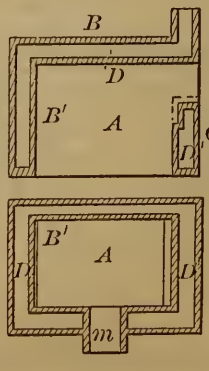
83549—A. J. Reynolds—*Steam Pump.*



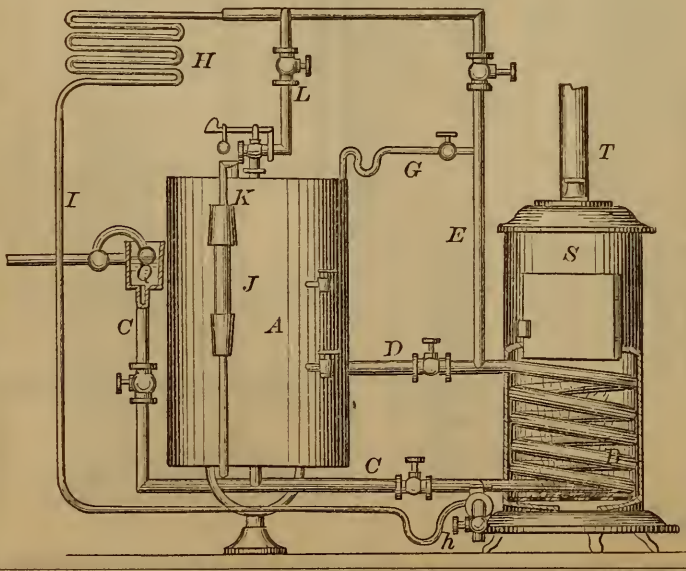
83550—J. F. Rodgers—*Gate.*



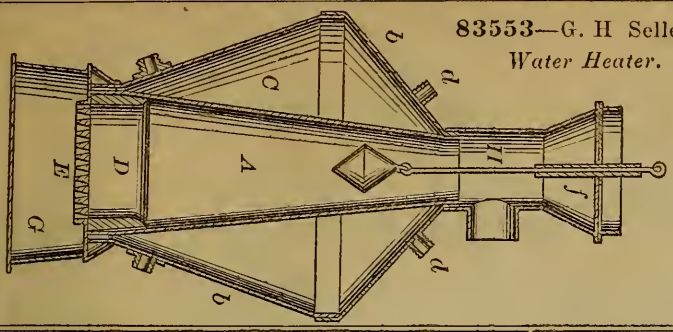
83551—H. Ross—*For the Manufacture of Iron.*



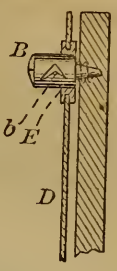
83552—J. C. Ryan—*Water Heating Apparatus.*



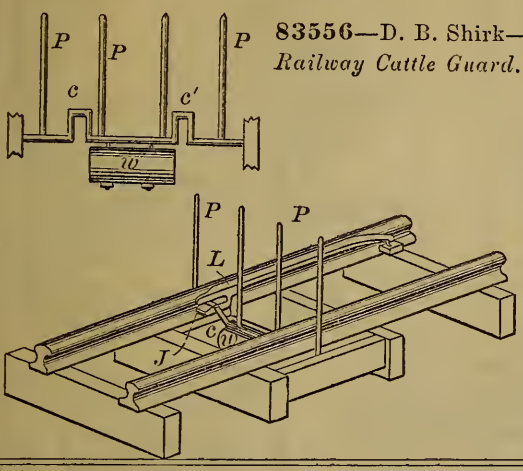
83553—G. H Sellers—*Water Heater.*



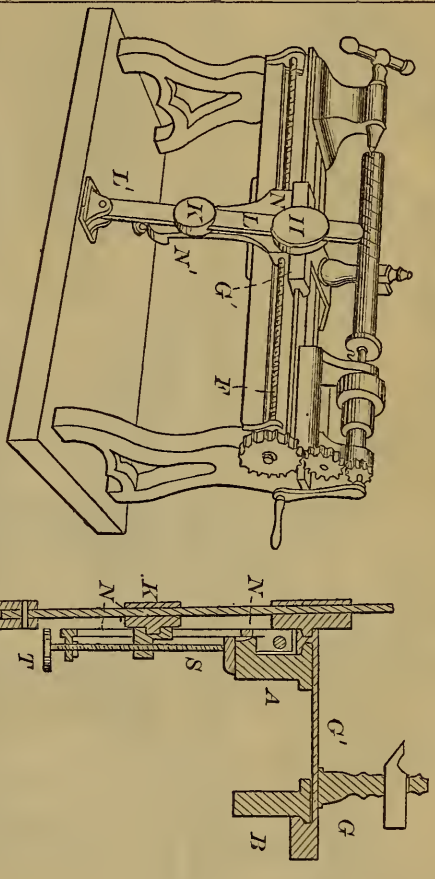
83555—E. Shepard—*Carriage Curtain Fastening.*



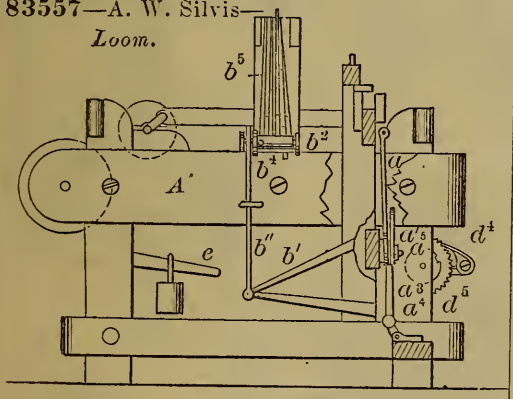
83556—D. B. Shirk—*Railway Cattle Guard.*

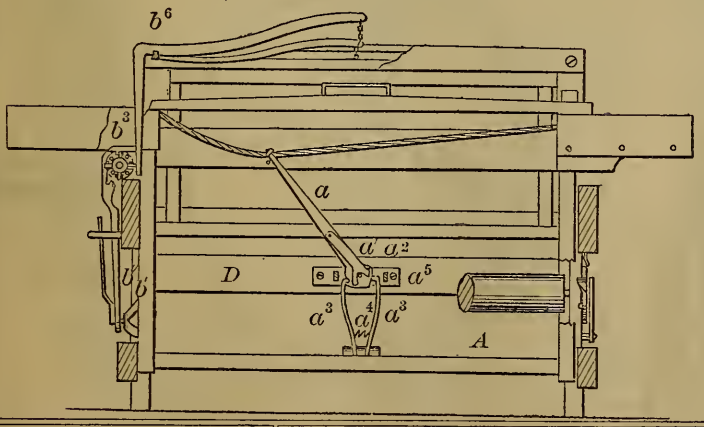


83554—H. F. Shaw—*Lathe.*

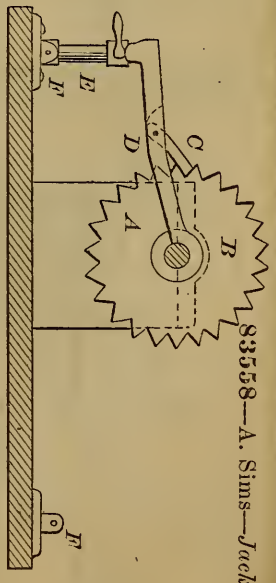


83557—A. W. Silvis—*Loom.*

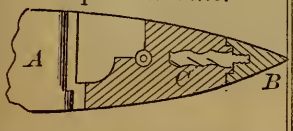




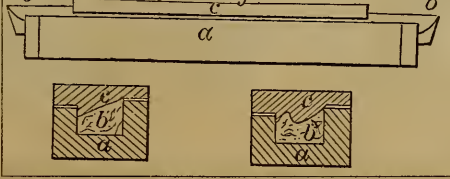
83558—A. Sims—*Jack.*



83559—Smith & Jaques—*Shuttle.*

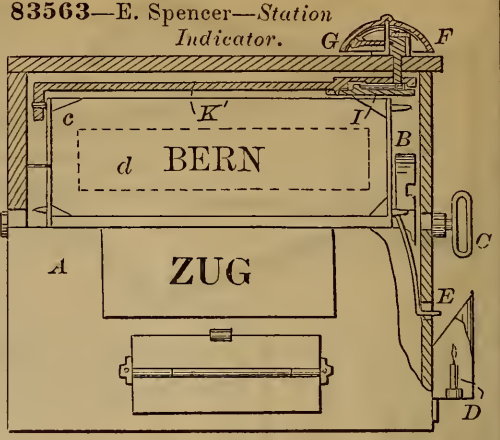


83560—J. P. Smith—*For Turning and Planing.*

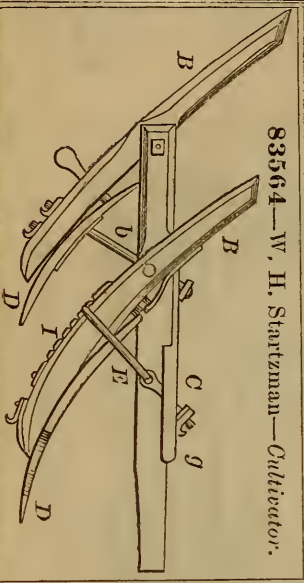


83561—W. Smith—*Hay Rack.*

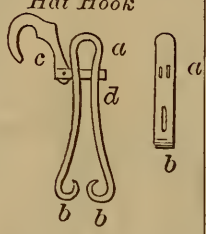
83563—E. Spencer—*Station Indicator.*

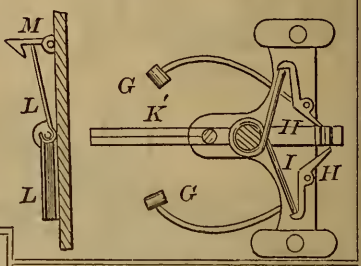


83564—W. H. Startzman—*Cultivator.*

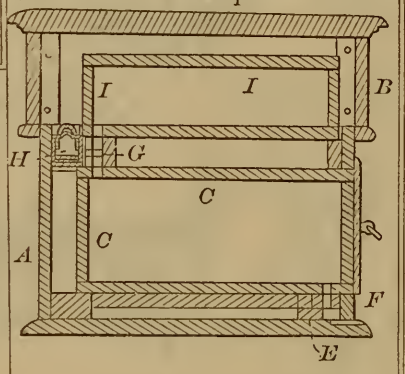


83562—C. L. Spencer—*Hat Hook*

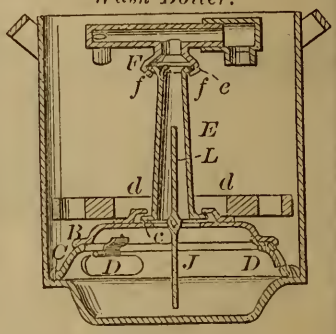




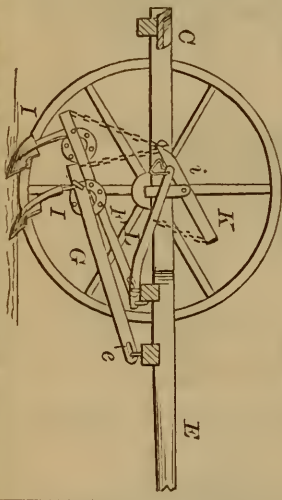
83565—L. M. Stoops—*Beehive.*



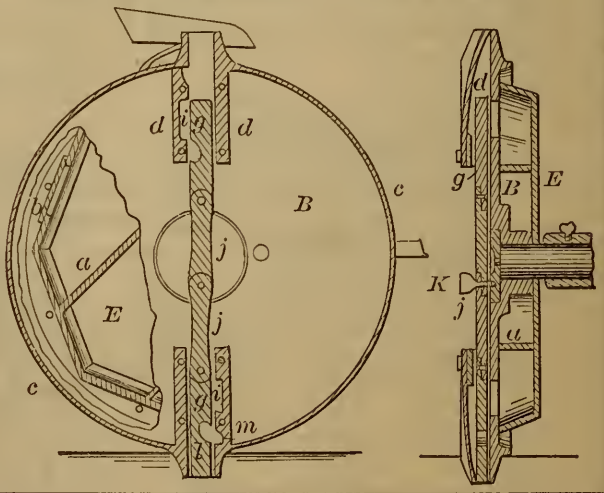
83566—J. B. Sweetland—*Wash Boiler.*



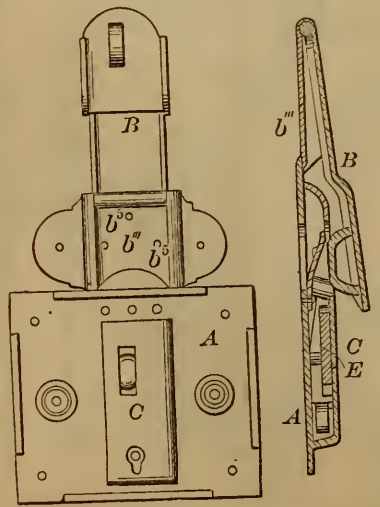
83569—P. R. Totten—*Cultivator.*



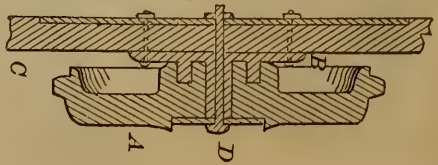
83567—C. W. Thiessen—*Corn Planter.*



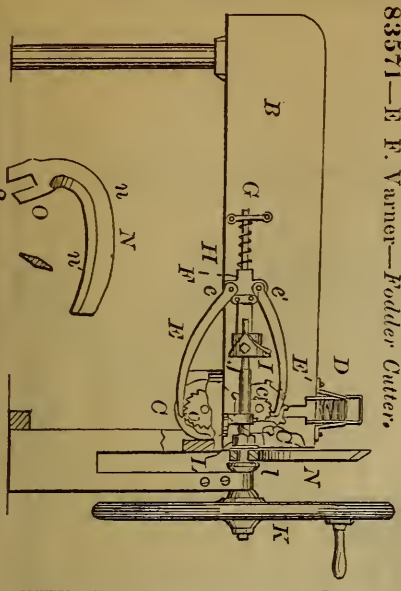
83570—L. Uitting—*Lock.*



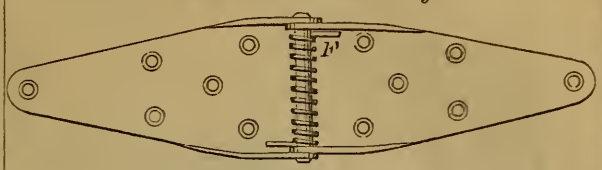
83568—J. Toay—*Harvester.*



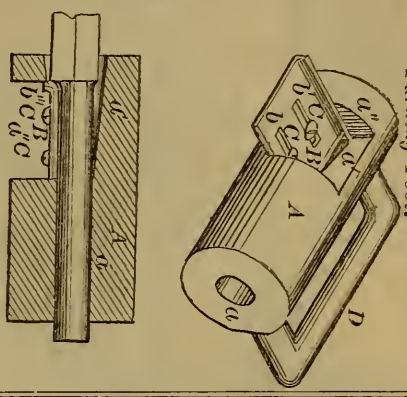
83571—E. F. Varner—*Fodder Cutter.*



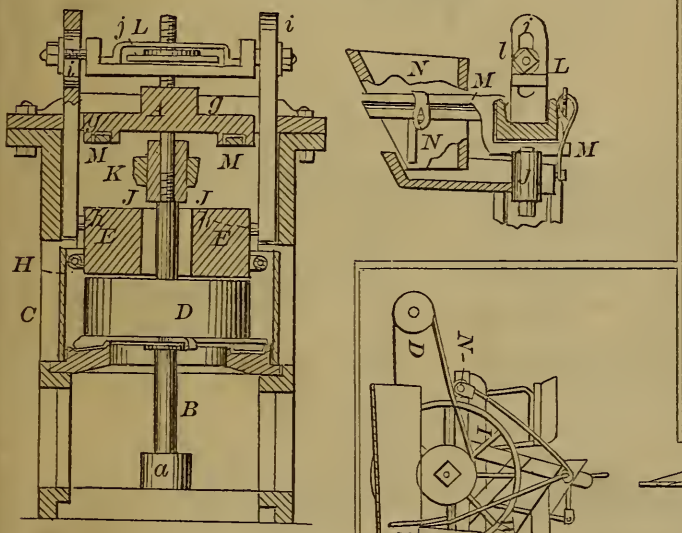
83572—A. W. Walter—*Door Hinge.*



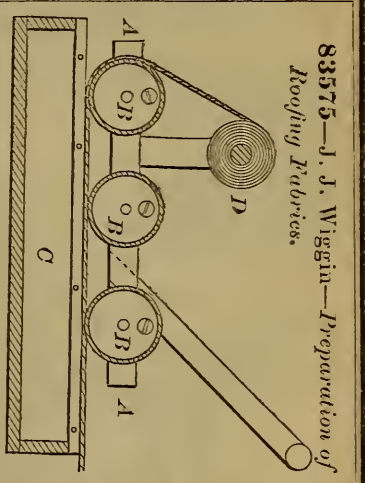
83573—W. H. Whitlock—*Turning Tool.*

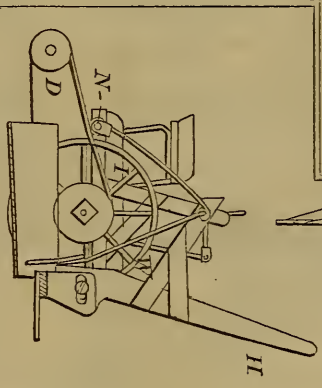


83574—B. Whitney—*Grist Mill.*

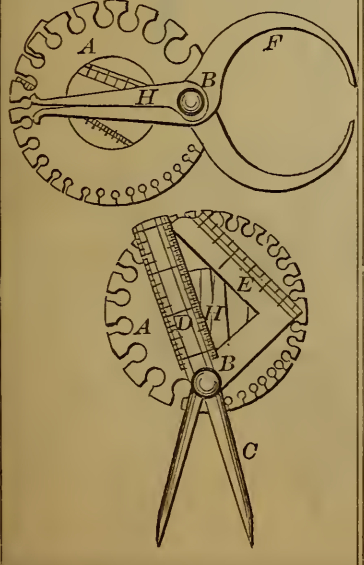


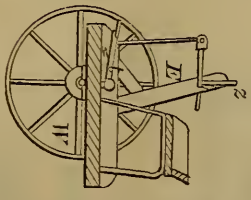
83575—J. J. Wiggin—*Preparation of Roofing Fabrics.*



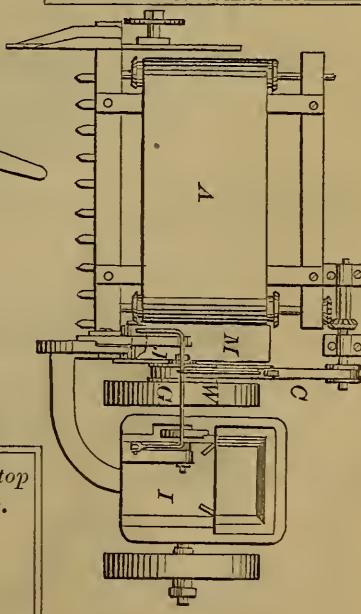


83577—Wilkinson & Boyle—*Combined Tool.*

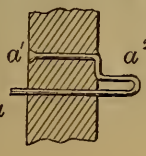




83578—M. J. Winc—*Harvester.*

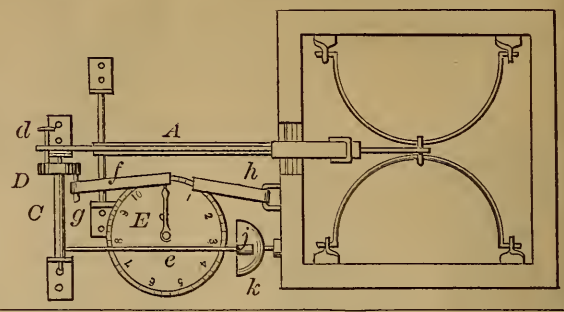


83581—J. Wright—*Stop for Umbrella Runners.*

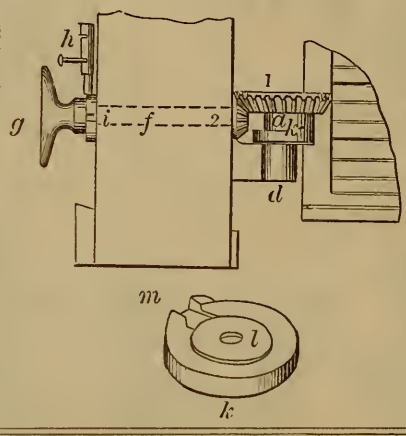


83579—Wolf & Haag—*Water Wheel.*

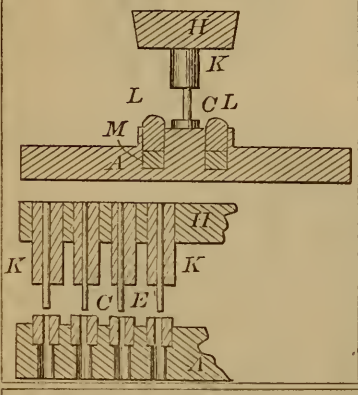
83580—D. Wolf—*Registering Scale.*



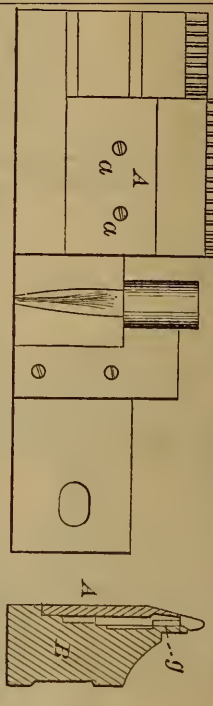
83585—M. Adler—*Hinge.*



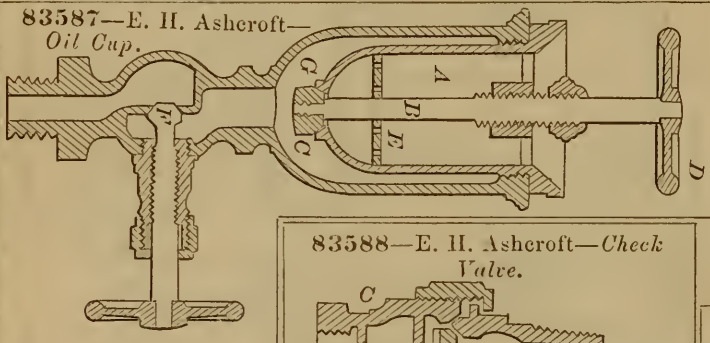
83586—T. G. Arnold—*Die and Punch.*



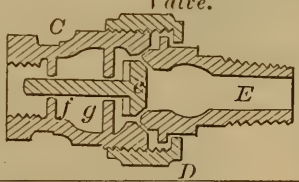
83583—W. H. Abel—*Knitting Machine.*



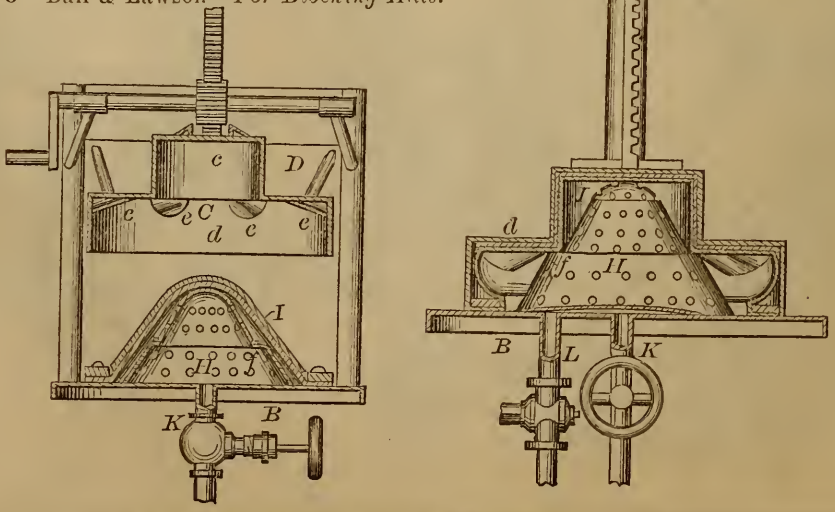
83587—E. H. Ashcroft—*Oil Cup.*



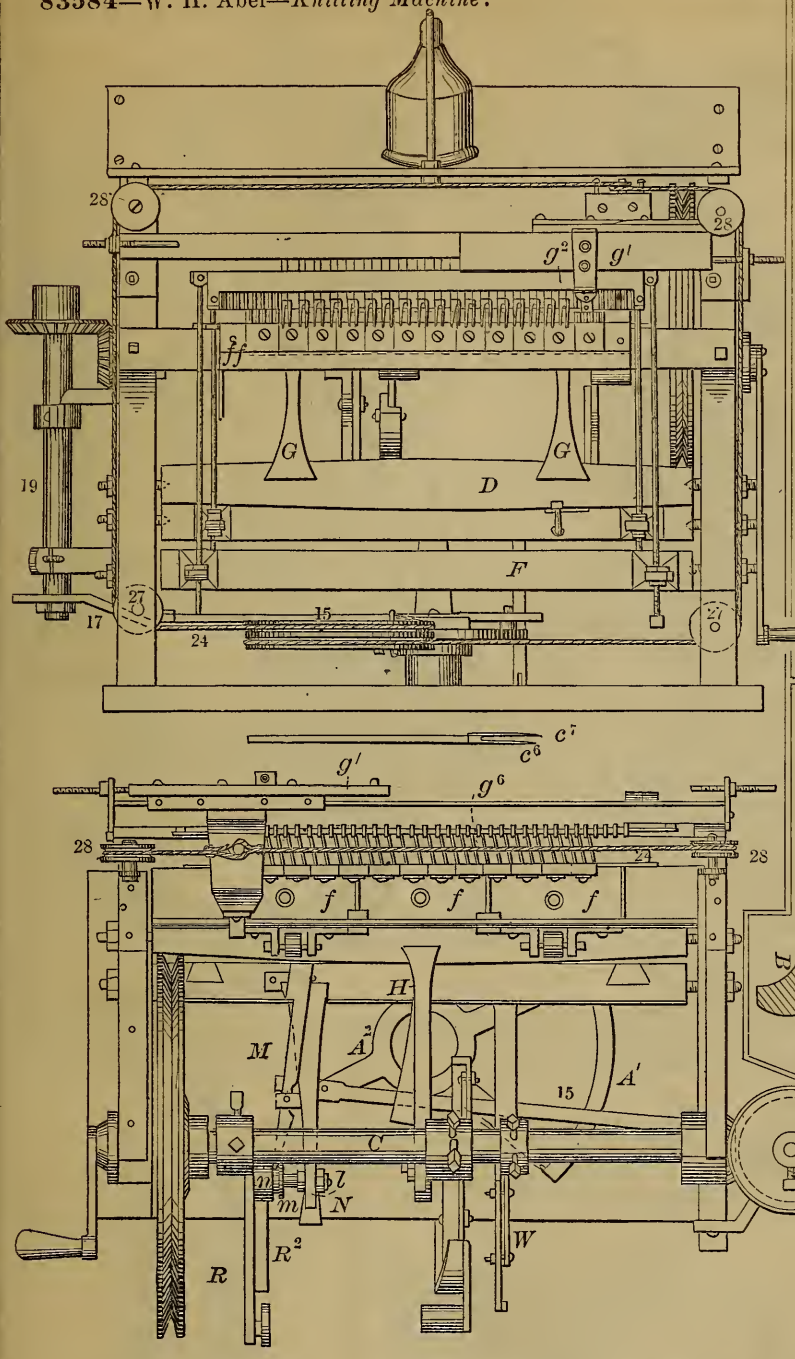
83588—E. H. Ashcroft—*Check Valve.*



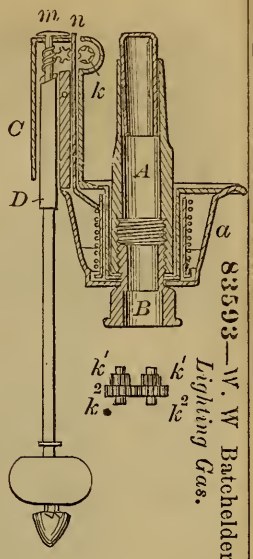
83590—Ball & Lawson—*For Blocking Hats.*



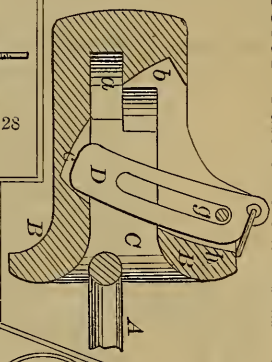
83584—W. H. Abel—*Knitting Machine*.

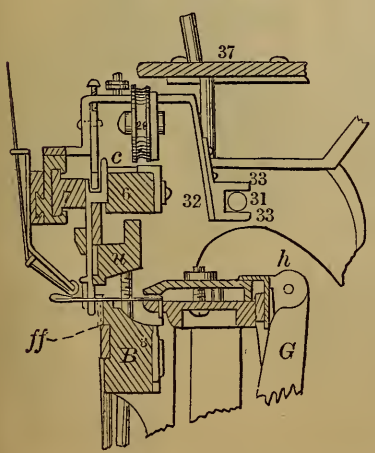


83593—W. W Batchelder—*Lighting Gas.*

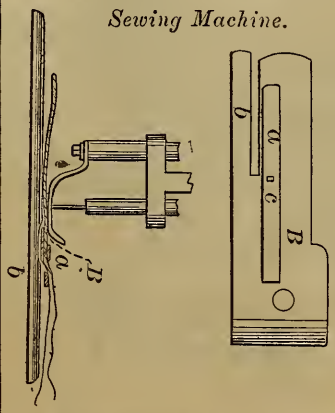


83591—Barthelmess & Millar—*Car Coupling.*

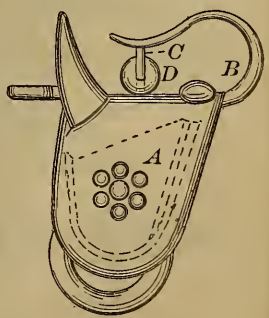




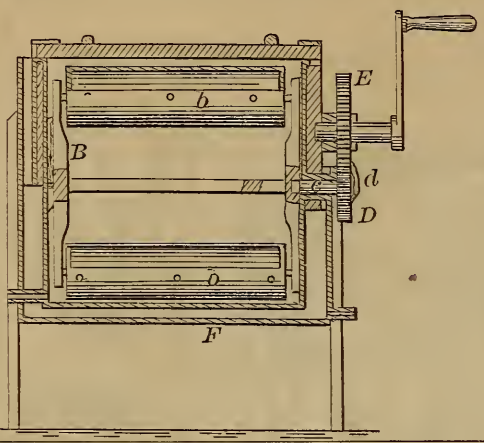
83592—W. B. Bartram—*Sewing Machine.*



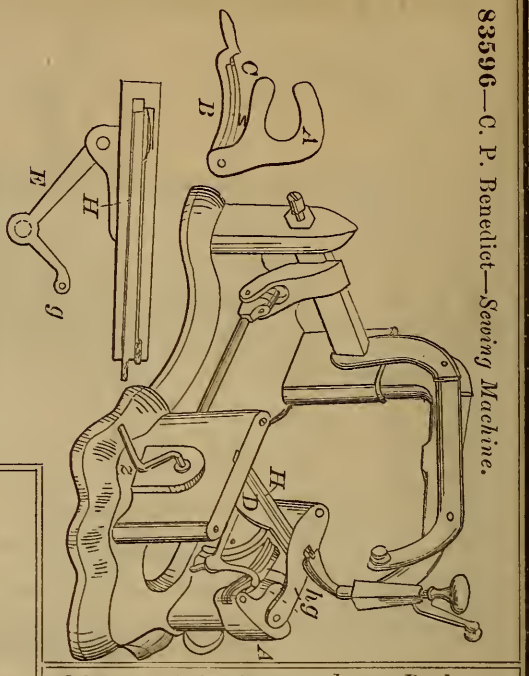
83594—A. Bedford—*Check Hook.*



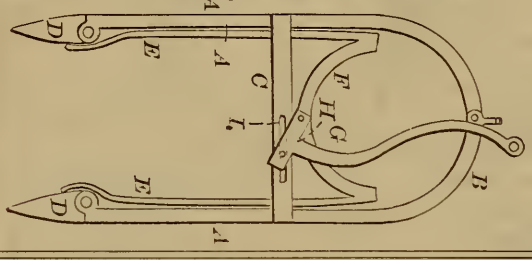
83595—G Beisner—*Churn.*



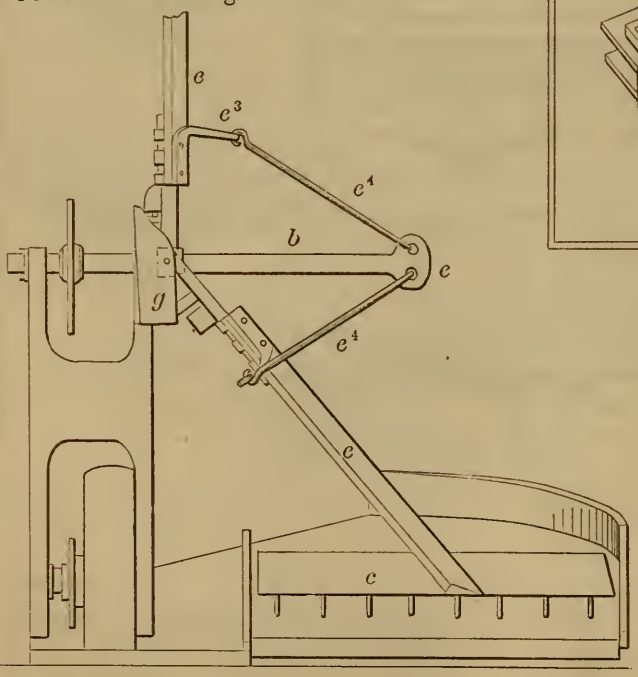
83596—C. P. Benedict—*Sewing Machine.*



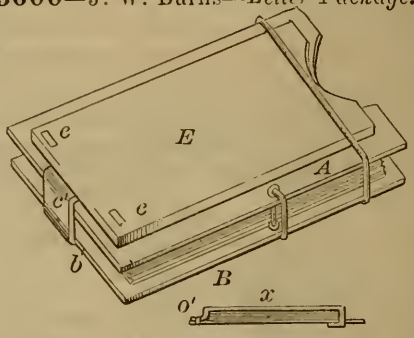
83598—B. S. Burgan—*Horse Hay Fork.*



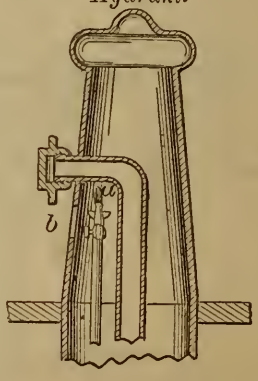
83599—C. T. Burgess—*Harvester Rake.*



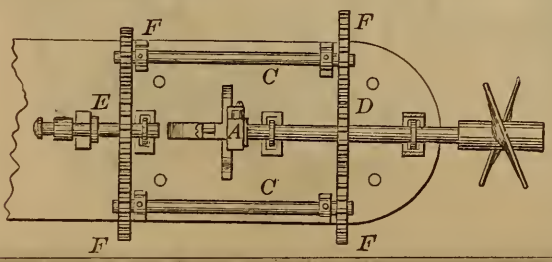
83600—J. W. Burns—*Letter Package.*



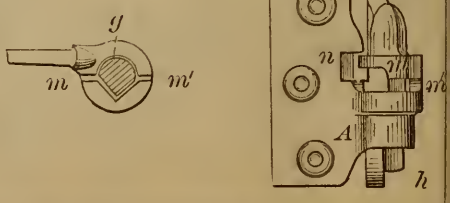
83602—J. E. Carter—*Hydrant.*



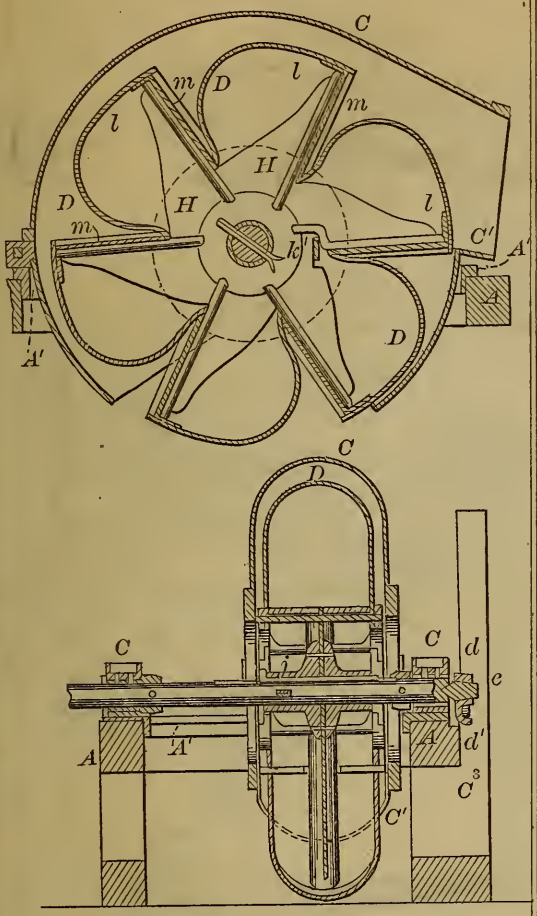
83601—W. Burtis—*Propeller Shaft.*



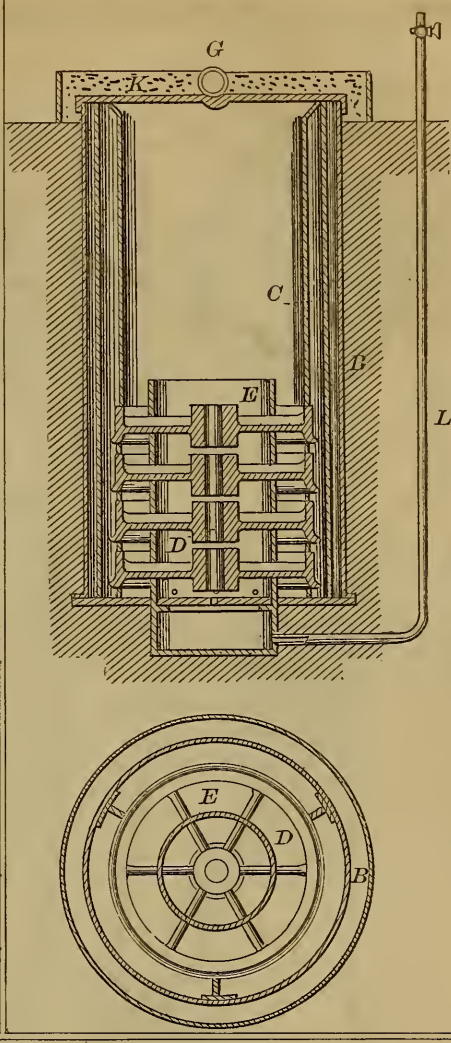
83603—C. B. Clark—*Blind Hinge.*

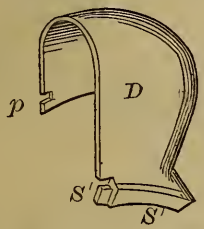


83604—M. J. Colbourn—*Water Wheel.*

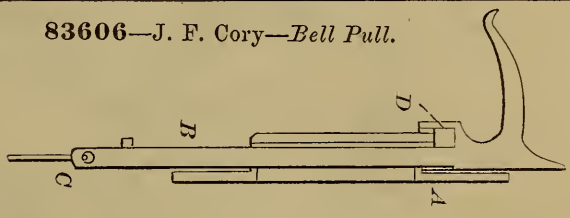


83605—W. J. Cochran—*For Annealing Car Wheels.*

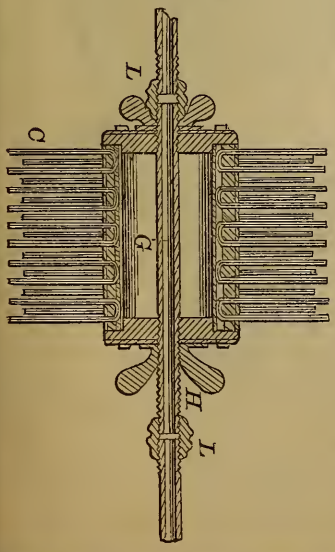




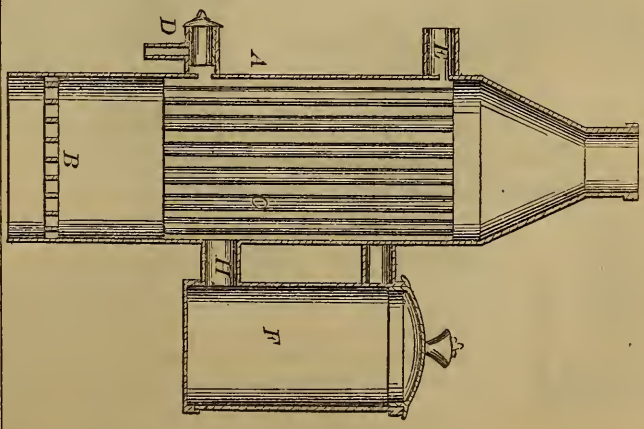
83606—J. F. Cory—*Bell Pull.*



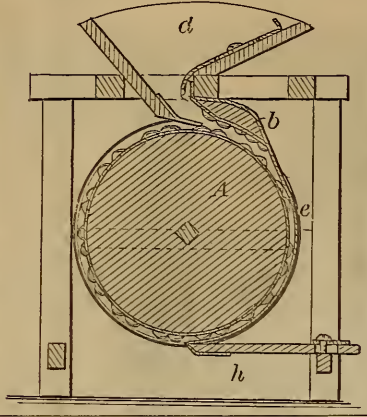
83607—P. H. Coyle—*Boiler Flue Brush.*



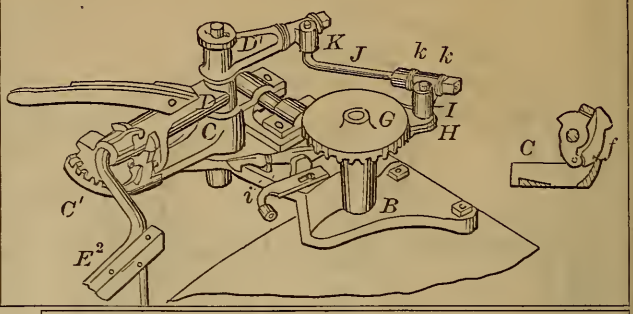
83608—J. A. Davis—*Steam Generator.*



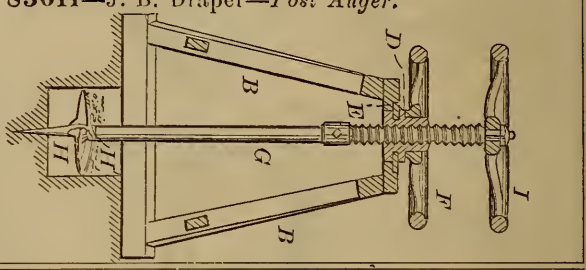
83609—C. de St. Charles—*Coffee Huller and Polisher.*



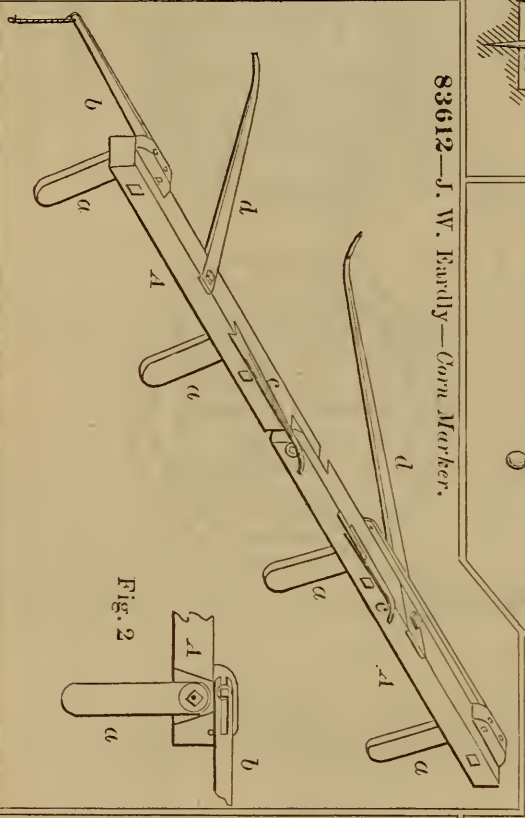
83610—J. Dick, Jr.—*Harvester Rake.*



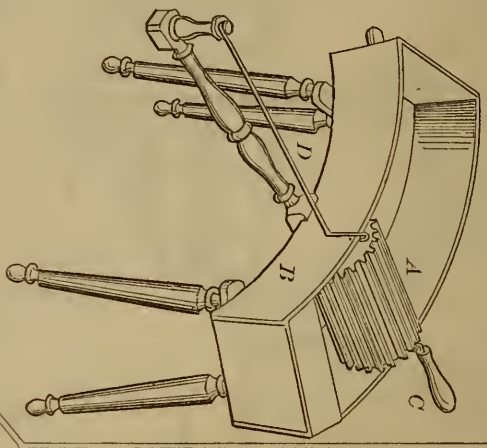
83611—J. B. Draper—*Post Auger.*



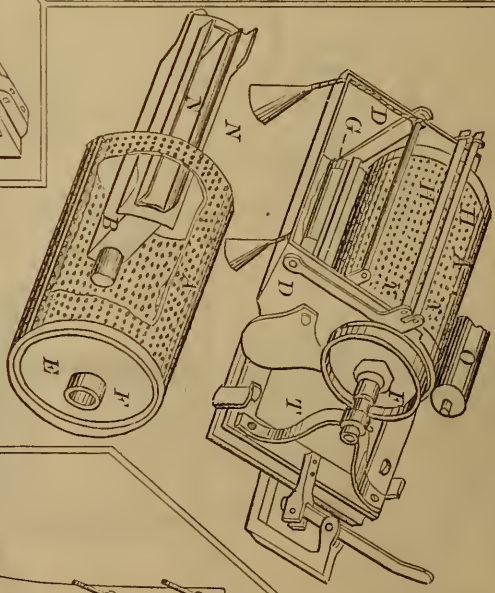
83612—J. W. Eardly—*Corn Marker.*



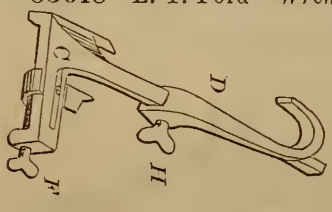
83613—D. Estes—*Washing Machine.*



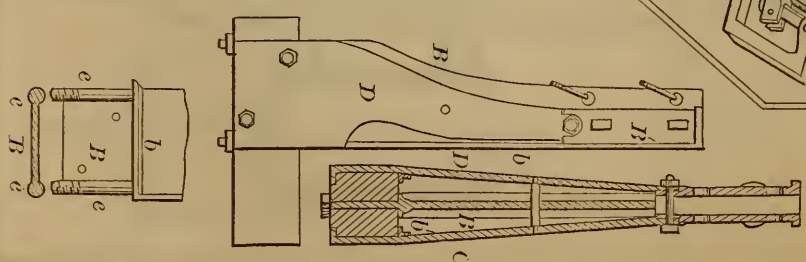
83616—E. T. Ford—*Manufacture of Paper.*



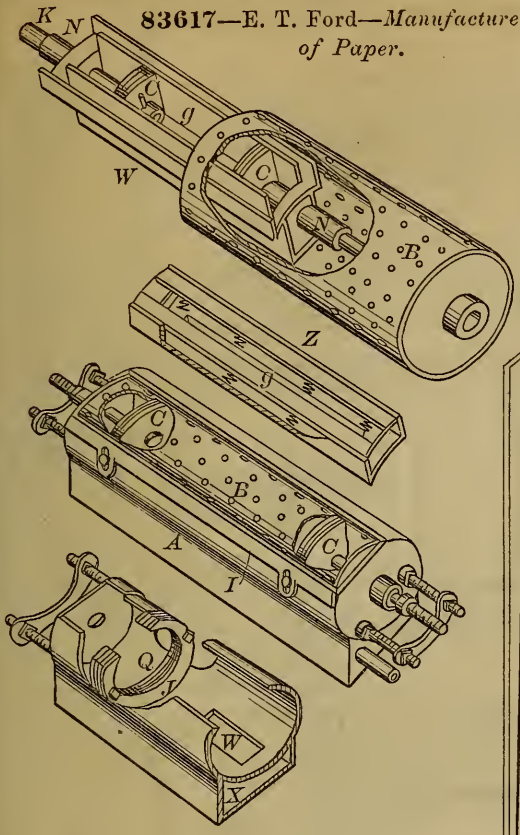
83618—E. T. Ford—*Wrench.*



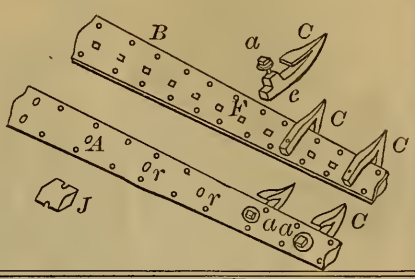
83614—A. Fassett—*Wagon Stake.*



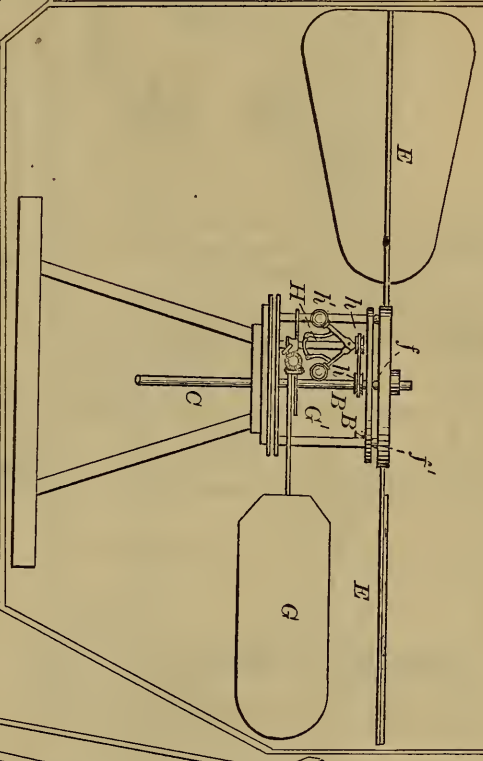
83617—E. T. Ford—*Manufacture of Paper.*



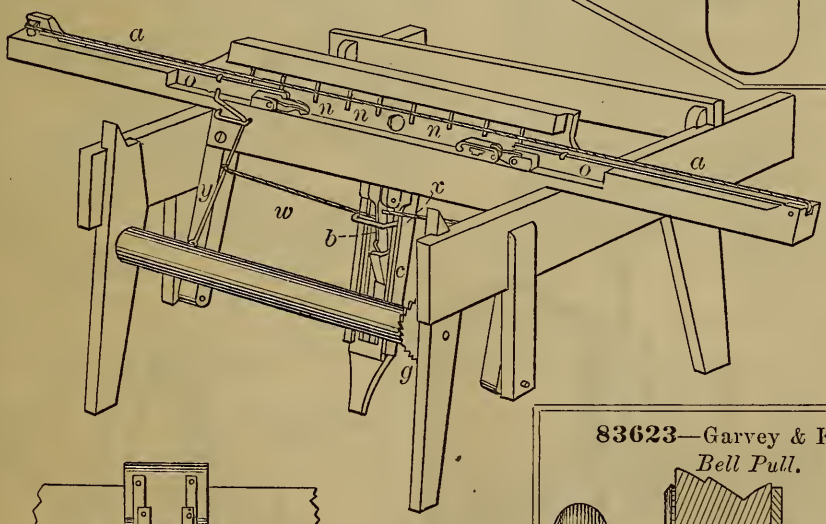
83619—E. T. Ford—*Harvester.*

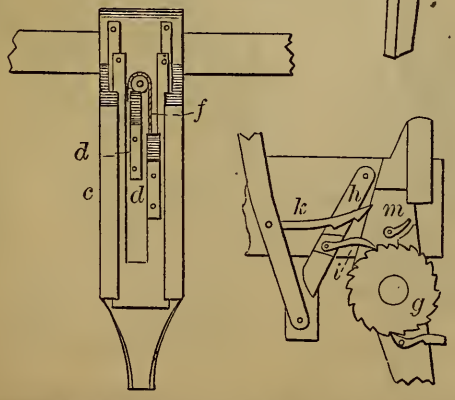


83620—J. Frazee—*Windmill.*

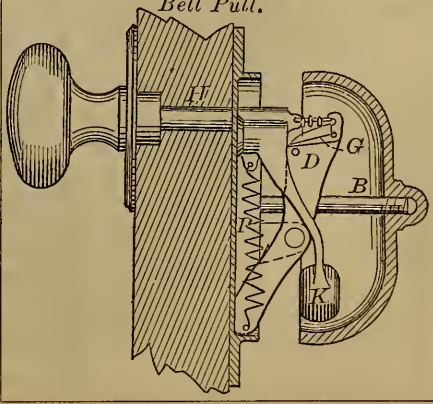


83621—J. G. Garretson—*Loom.*

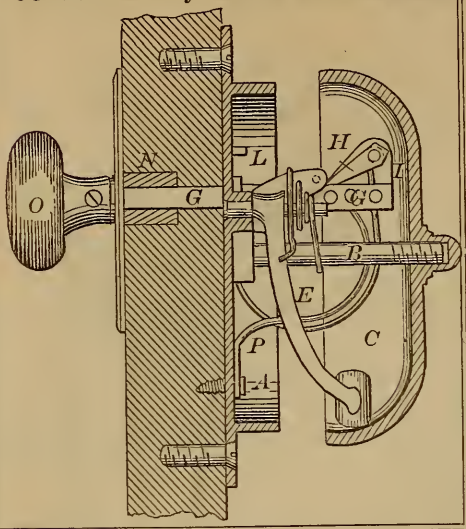




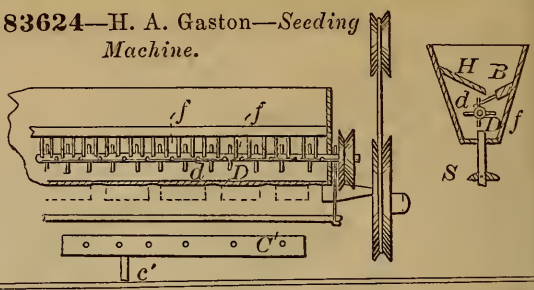
83623—Garvey & Kimball—*Bell Pull.*

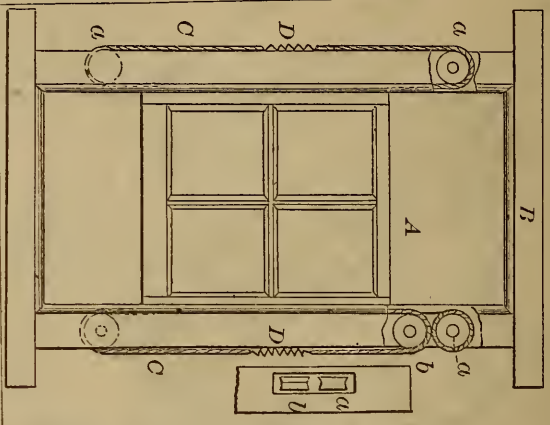


83622—Garvey & Kimball—*Bell Pull.*



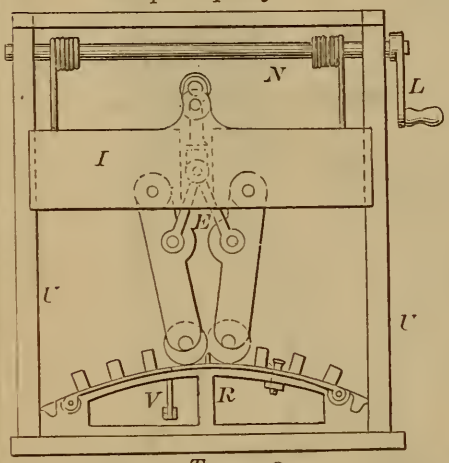
83624—H. A. Gaston—*Seeding Machine.*

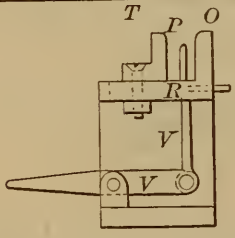




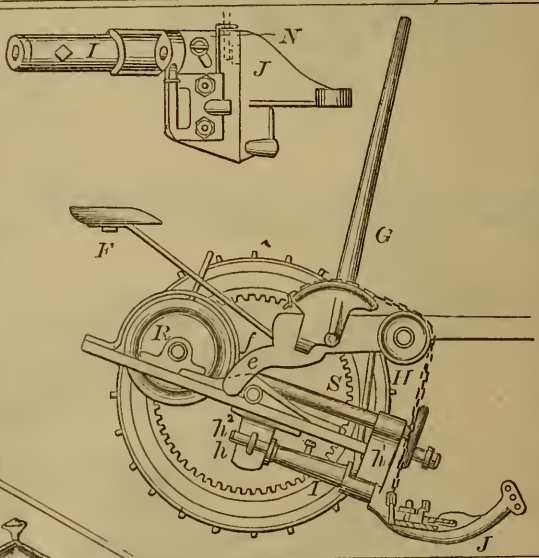
83626—H. C. Goodspeed—*Sash.*

83625—J. Gatchell—*For Bending Elliptic Springs.*

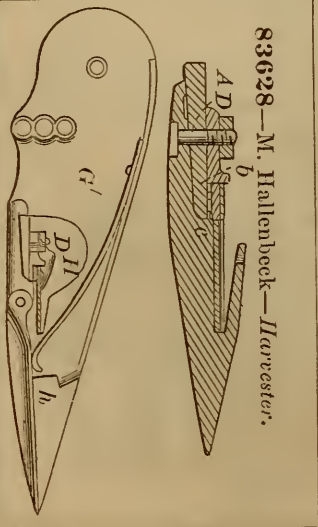




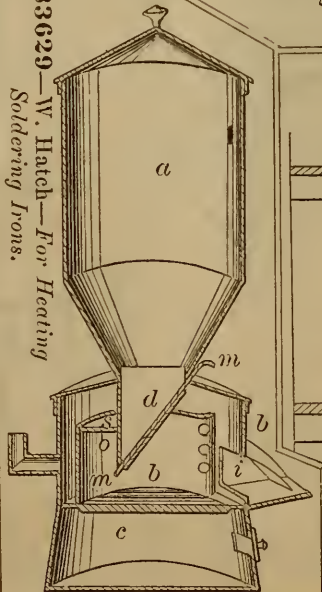
83627—M. Hallenbeck—*Harvester.*



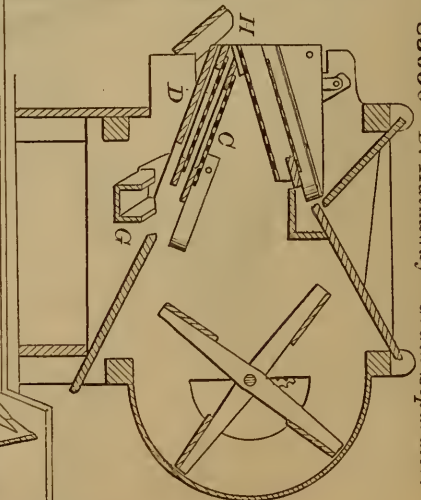
83628—M. Hallenbeck—*Harvester.*



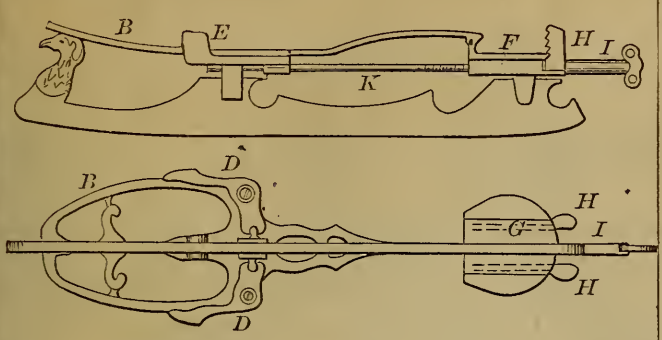
83629—W. Hatch—*For Heating Soldering Irons.*



83630—D. Hathaway—*Grain Separator.*

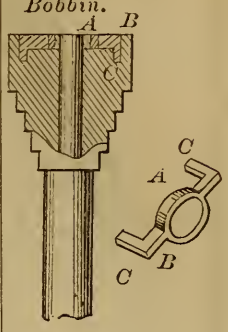


83631—G. Havell—*Skate.*

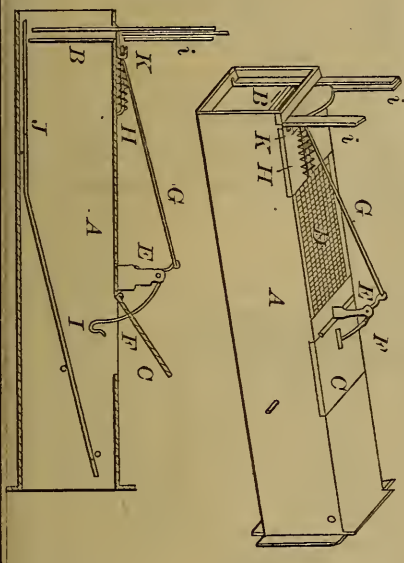


83632—O. R. Hight—*Window Sash and Frame.*

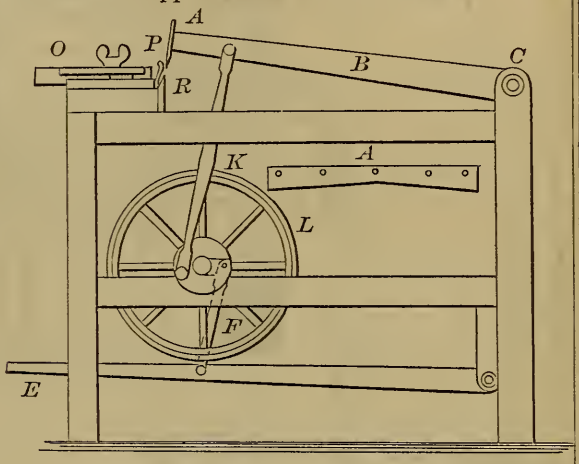
83635—H. J. Hubbard—*Bobbin.*

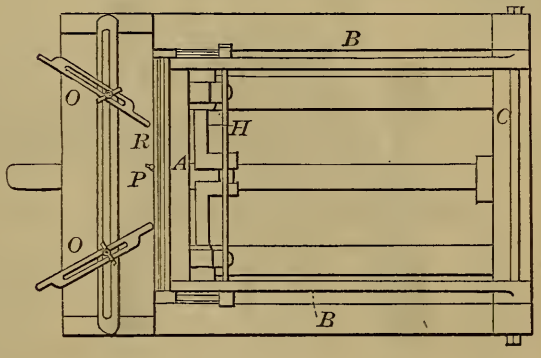


83633—T. M. Hill—*Animal Trap.*

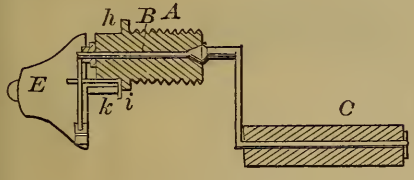


83634—Hopper & Hetzell—*Slate Cutter.*

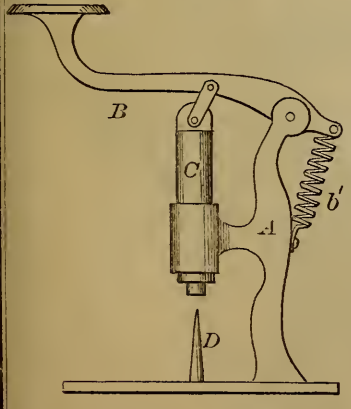




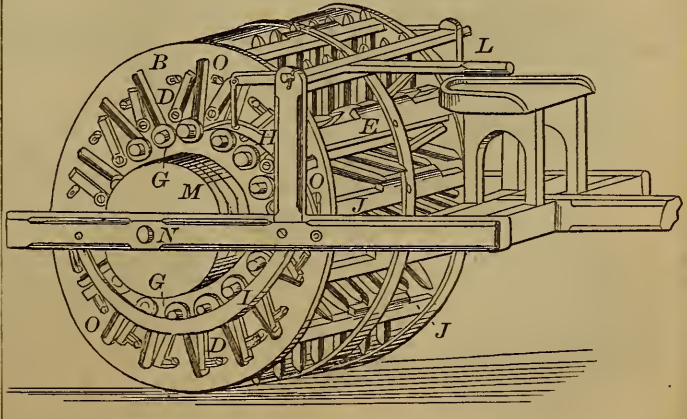
83638—E. Joyce—*Low Water Indicator.*



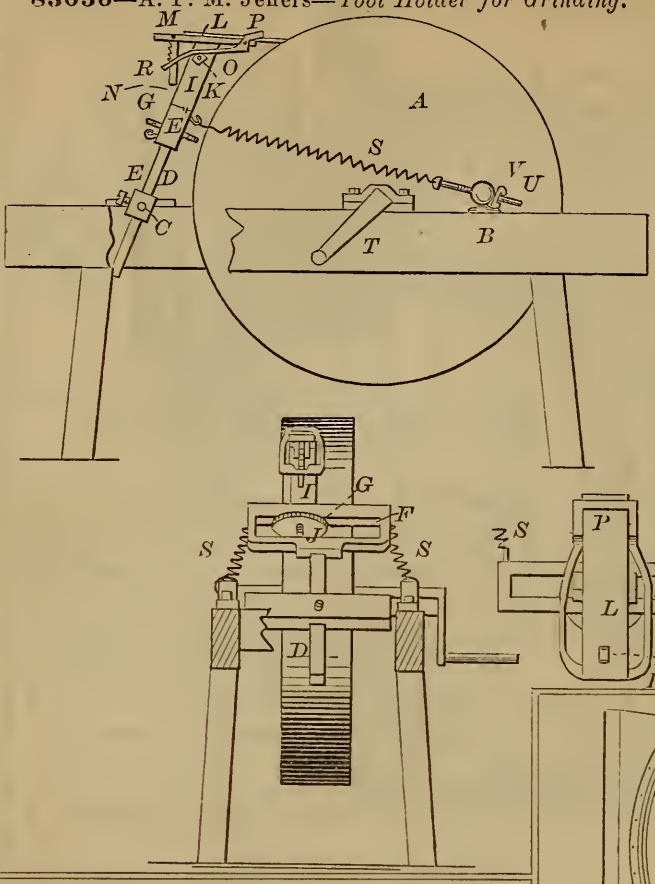
83640—A. J. Kletzker—*Fastener.*

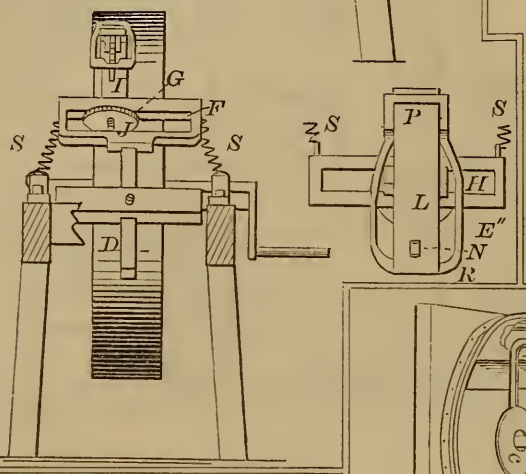


83639—E. H. Kent—*Rotary Spading Machine.*

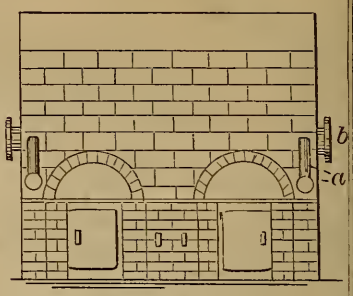


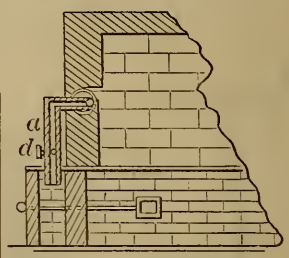
83636—A. P. M. Jeffers—*Tool Holder for Grinding.*



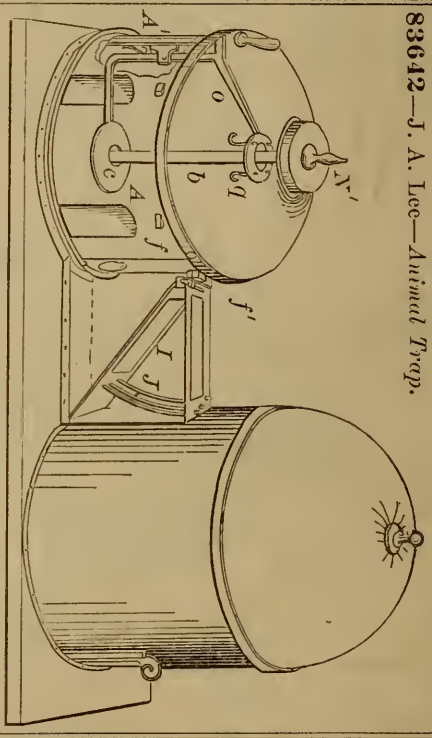


83643—D. Lees—*Manufacture of Oxide of Zinc.*

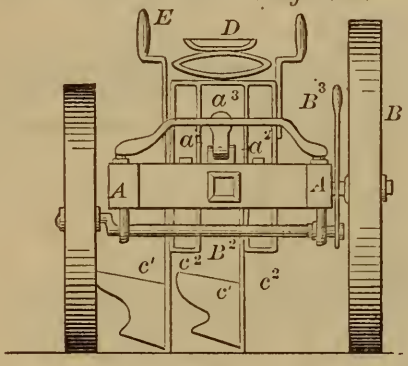


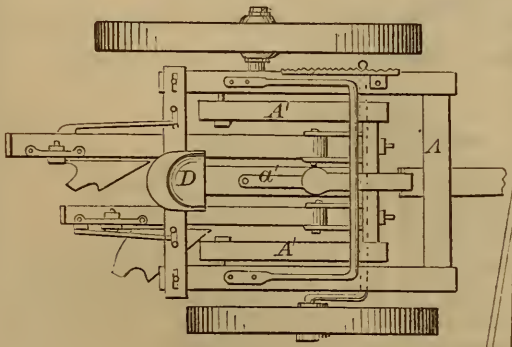


83642—J. A. Lee—*Animal Trap.*

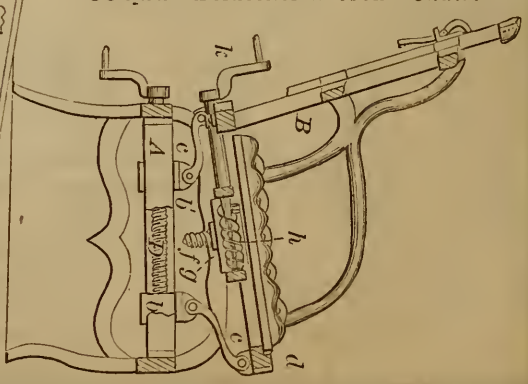


83641—J. D. Kneedler—*Gang Plow.*

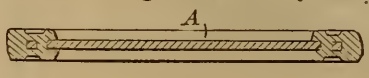




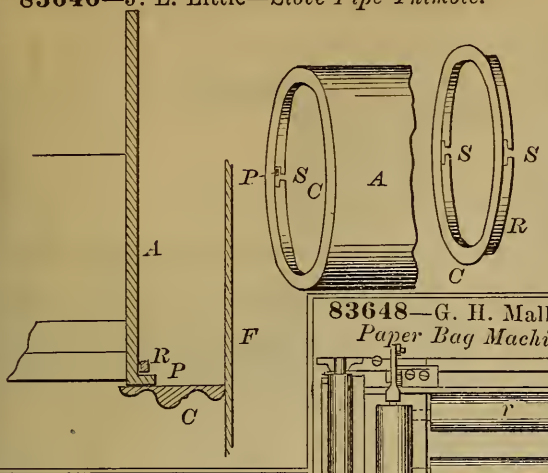
83644—Leidecker & Cron—*Chair.*



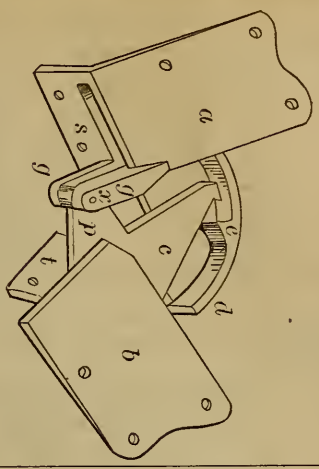
83645—Leighton & Severy—*Slate.*



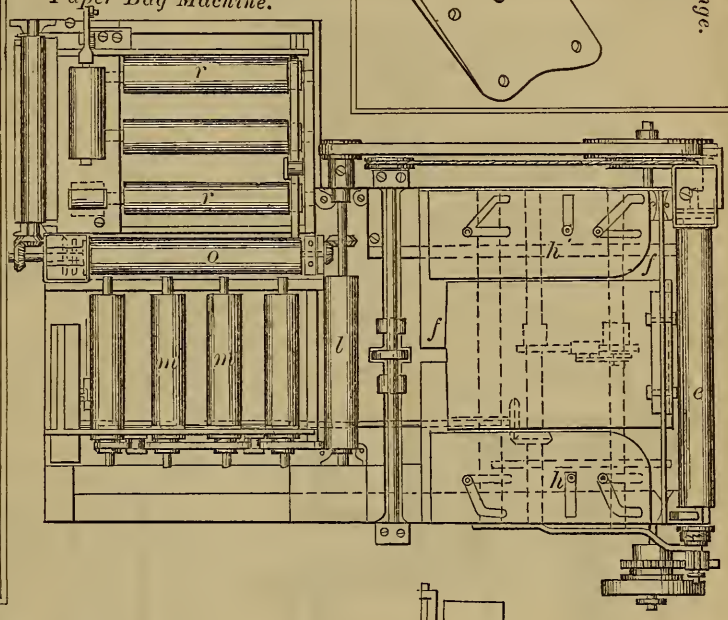
83646—J. L. Little—*Stove Pipe Thimble.*



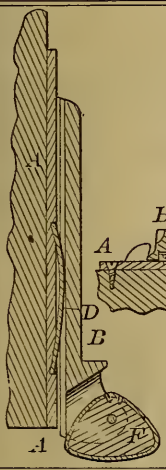
83647—O. Luce—*Trunk Hinge.*



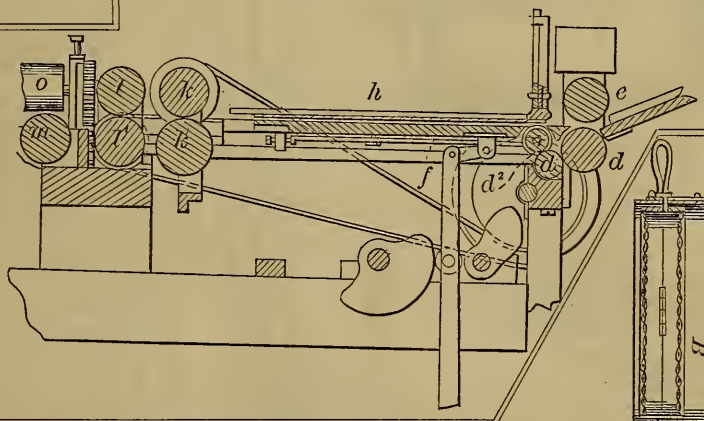
83648—G. H. Mallary—*Paper Bag Machine.*



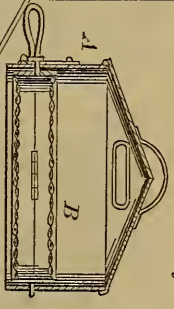
83650—W. May—*Door Stop.*



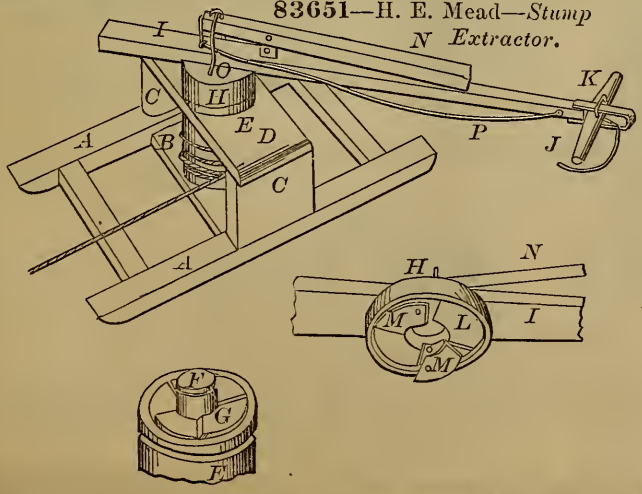
83654—F. L. Oliver—*Wrench.*

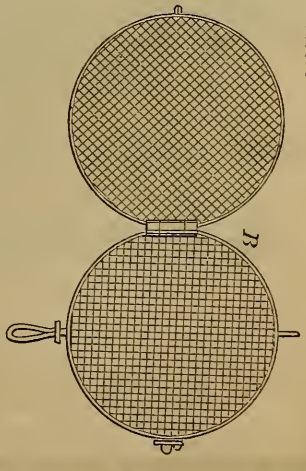


83649—J. Mallory—*Broiler.*

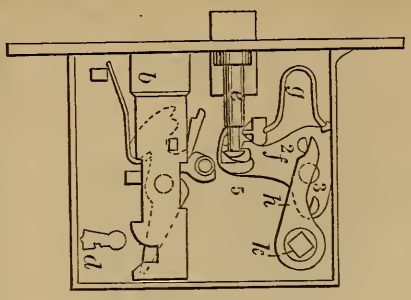


83651—H. E. Mead—*Stump Extractor.*

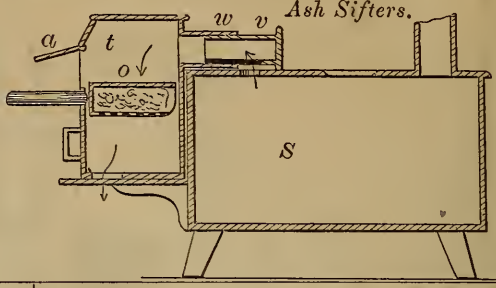




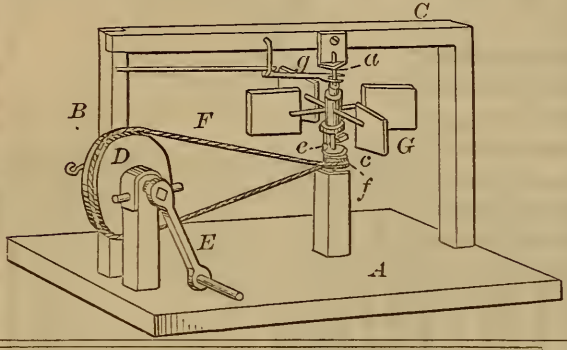
83652—W. T. Munger—*Knob Latch.*



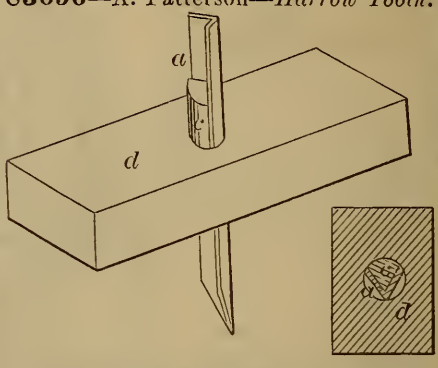
83653—H. A. Newhall—*Ventilator for Ash Sifters.*



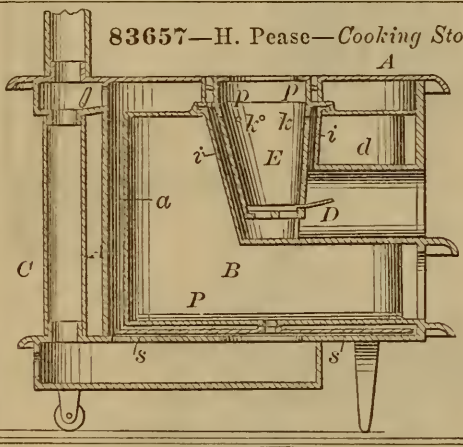
83655—E. H. Parker—*Steam Governor.*



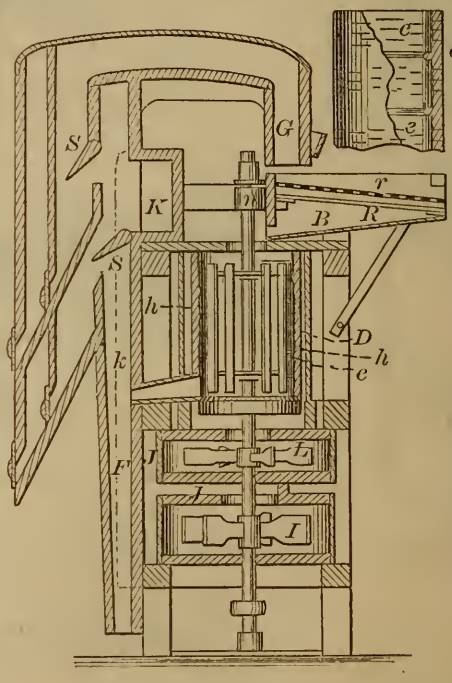
83656—A. Patterson—*Harrow Tooth.*



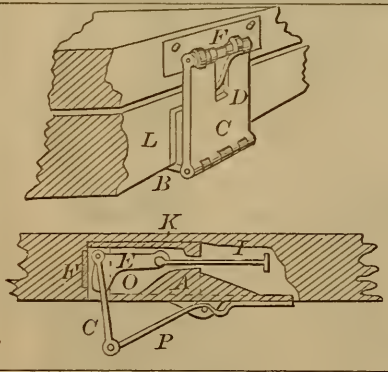
83657—H. Pease—*Cooking Stove.*



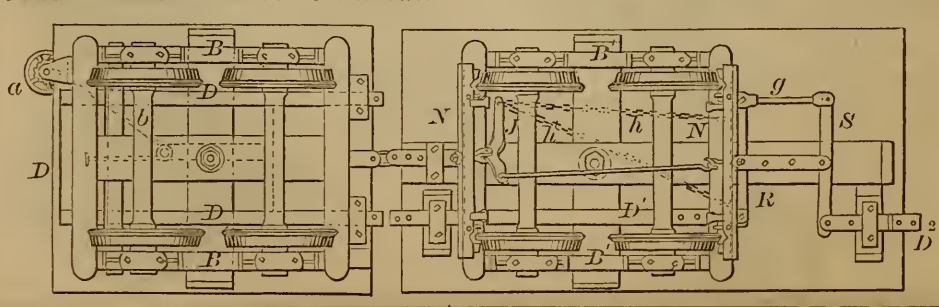
83658—C. T. Phillips—*Smut Mill.*



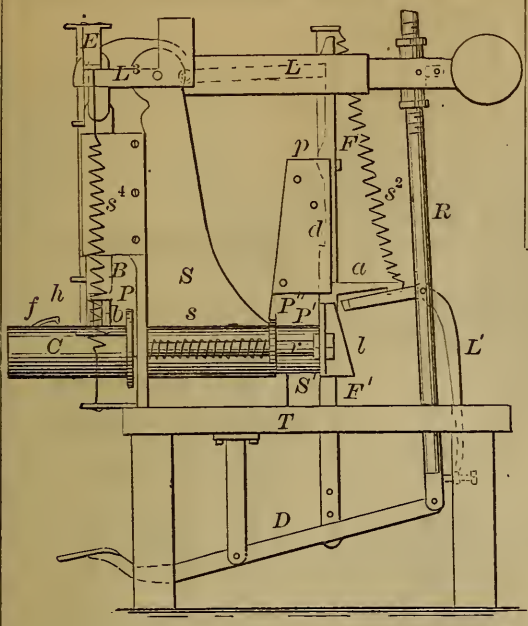
83659—B. C. Pole—*Hinge.*

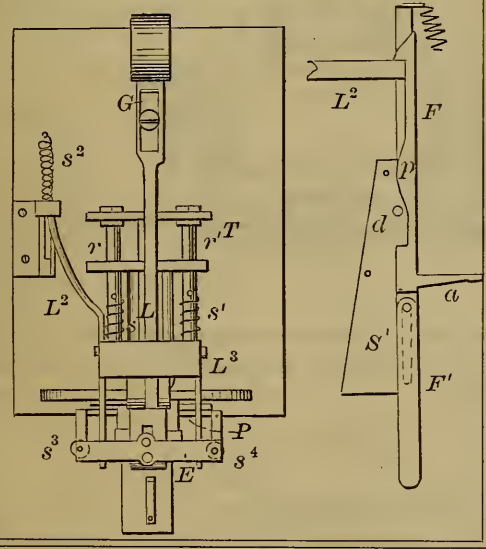


83661—Portlock & Dodds—*Car Brake.*

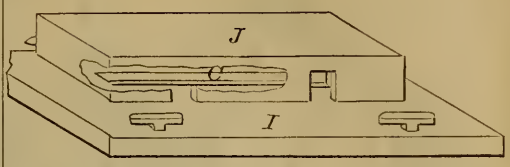


83660—Pollock & Diedrick—*Metal Can.*

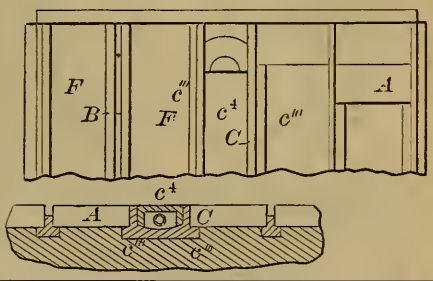




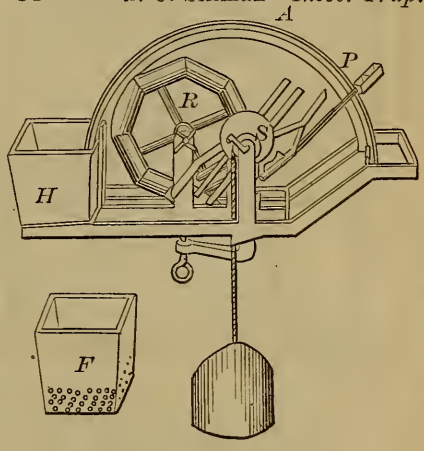
83662—D. Quinn—*Raft.*



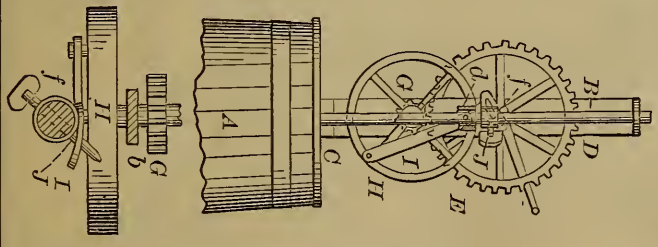
83663—J. Read—*Gutter in Foot Pavements.*

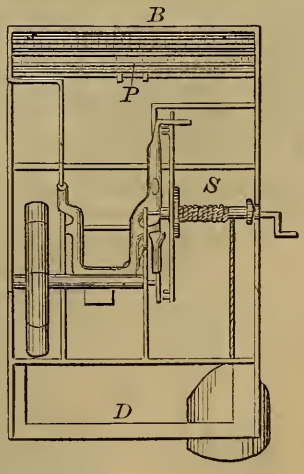


83666—T. C. Sillman—*Insect Trap.*

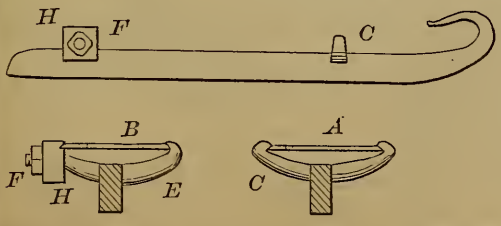


83664—E. P. Russell—*Churn.*

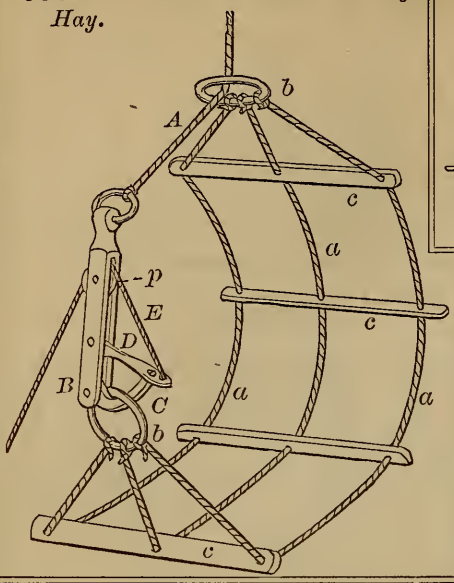




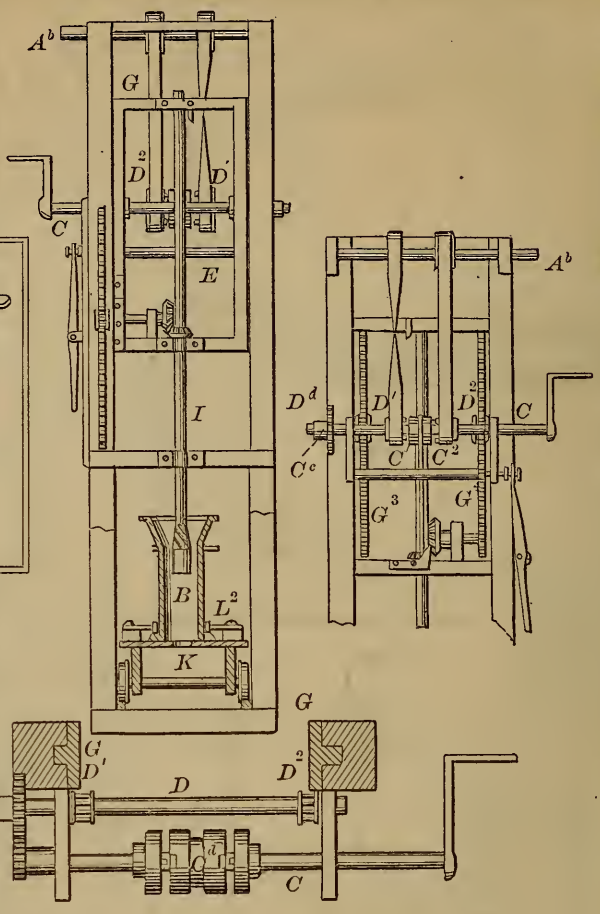
83665—R. J. Russell—*Skate.*



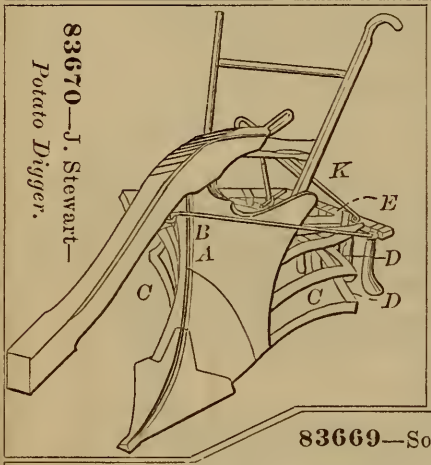
83667—G. Smith—*For Unloading Hay.*



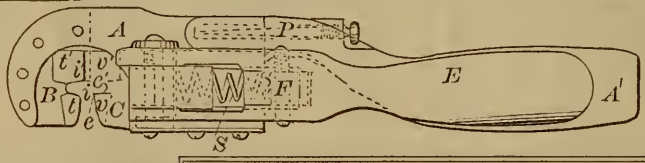
83668—W. Smith—*Pipe Moulding Machine.*

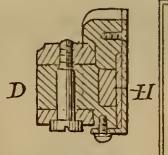


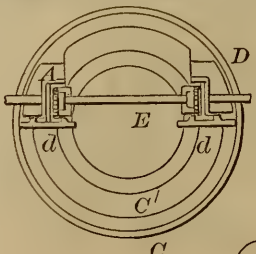
83670—J. Stewart—*Potato Digger.*



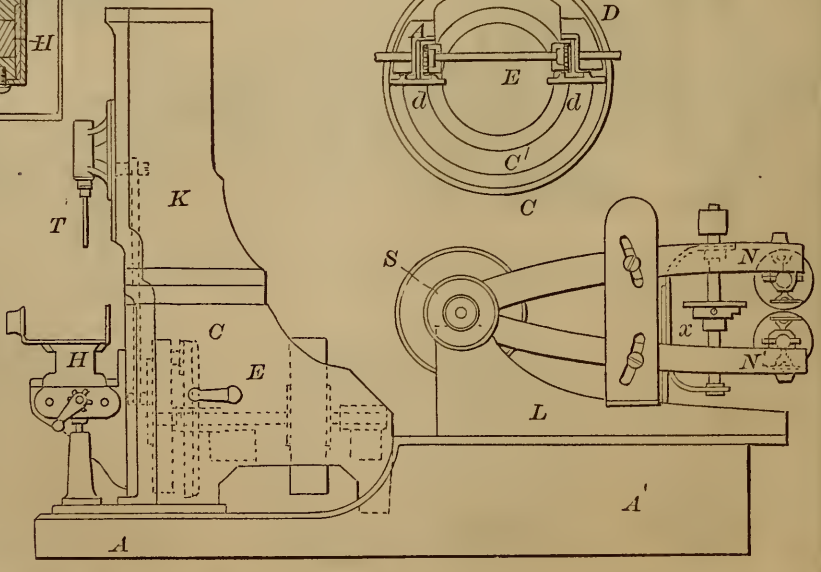
83669—Somers & Atwood—*For Attaching Buttons to Fabrics.*



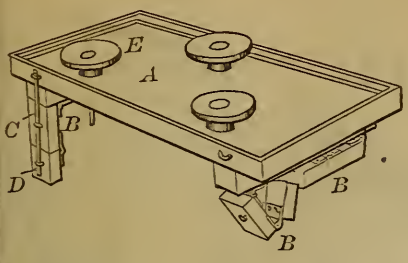




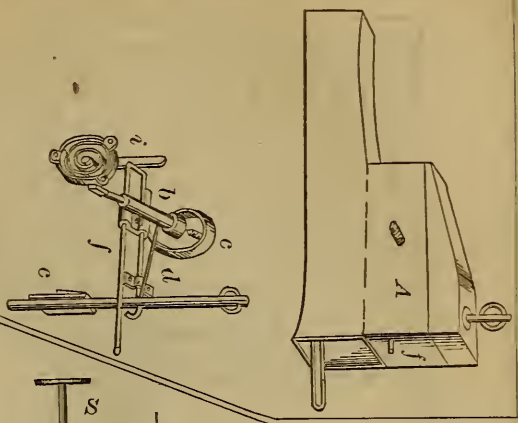
36671—H. D. Stover—*Mortising and Tenoning Machine.*



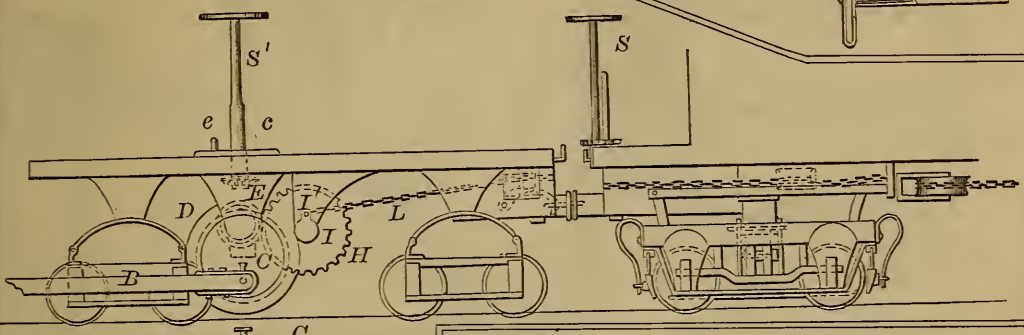
83672—J. T. Styer—*Sheep Shearing Table.*

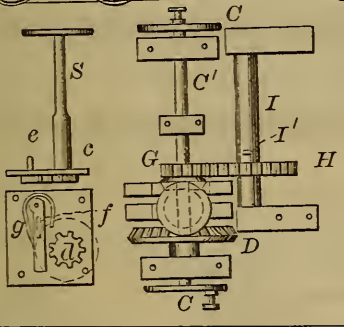


83673—H. Tarbox—*Car Coupling.*

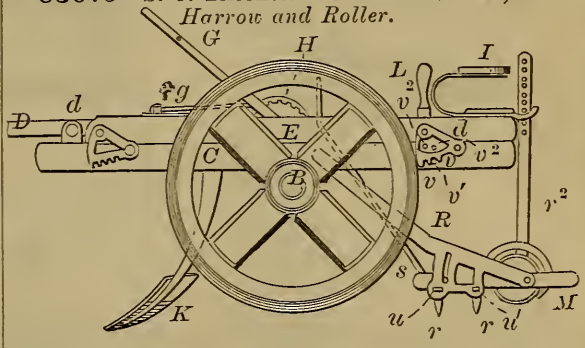


83674—B. O. Thompson—*Car Brake.*

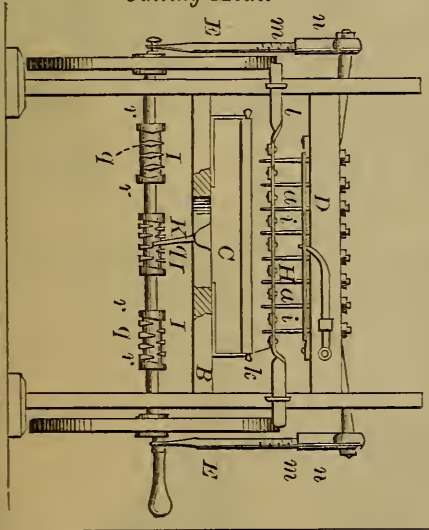


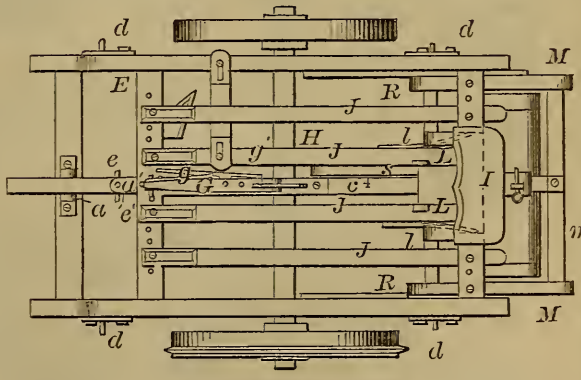


83675—S. C. Thornton—*Cultivator, Plow, Harrow and Roller.*

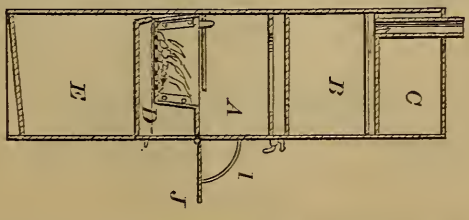


83676—P. Vande Sande—*For Cutting Meat.*



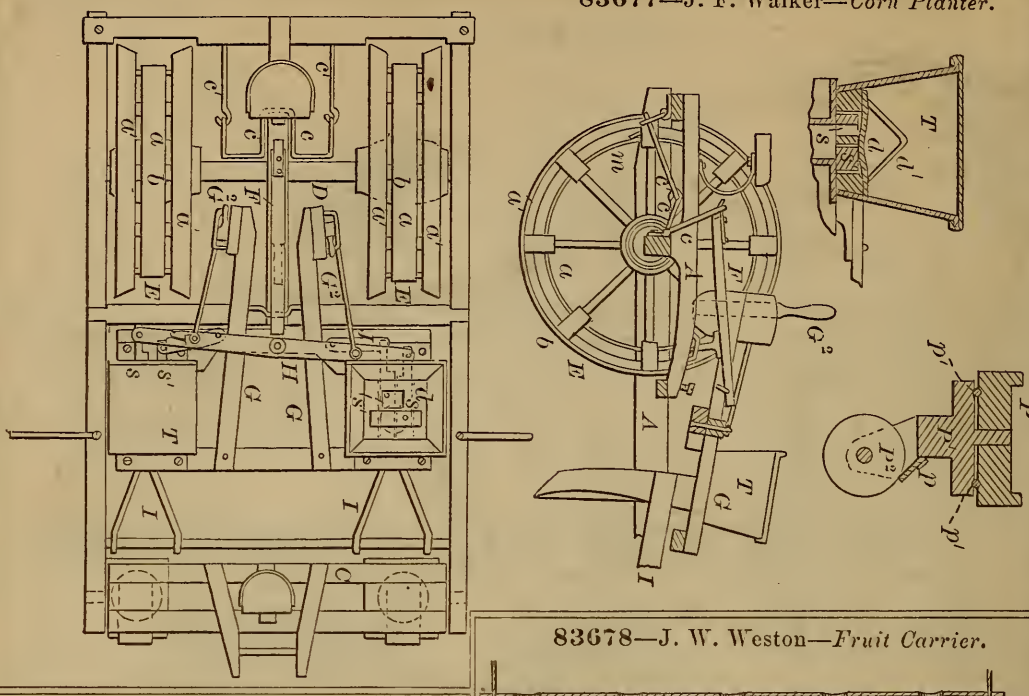


83679—S. Wilks—*Cooking Range.*

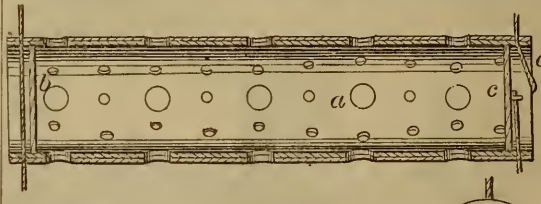


83680—W. H. & L. Young—*Curtain Fixture.*

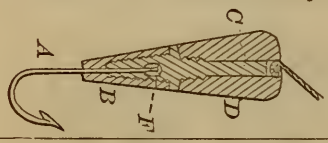
83677—J. F. Walker—*Corn Planter.*



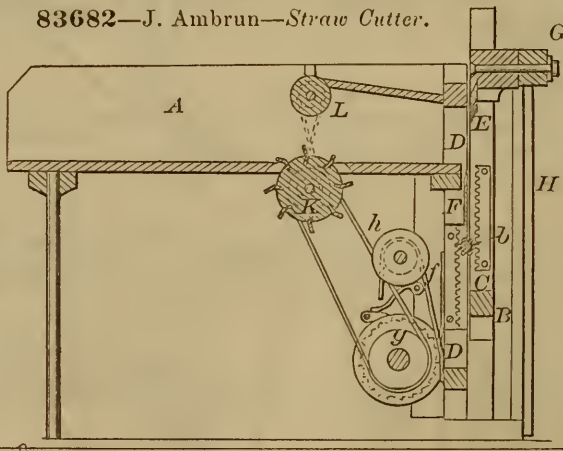
83678—J. W. Weston—*Fruit Carrier.*



83681—S. Albee—*Fishing Jig.*

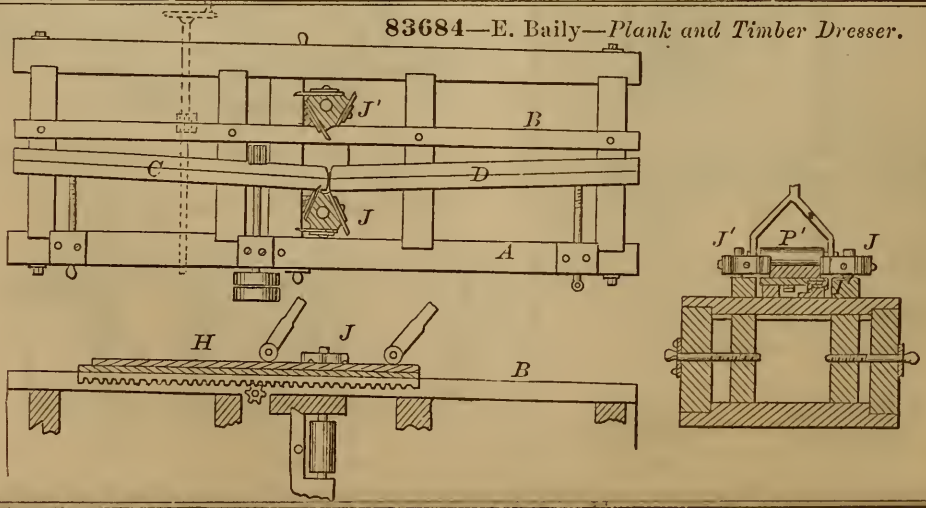


83682—J. Ambrun—*Straw Cutter.*

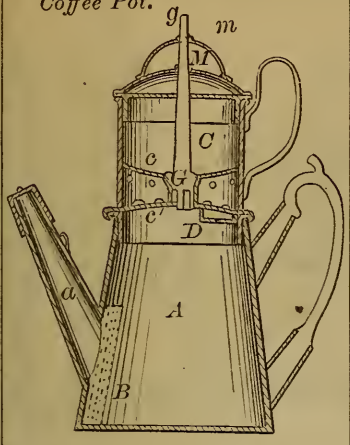


83685—A. Bicknell—*Sash Guide Block.*

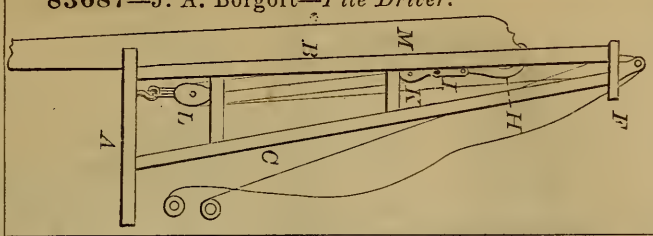
83684—E. Baily—*Plank and Timber Dresser.*



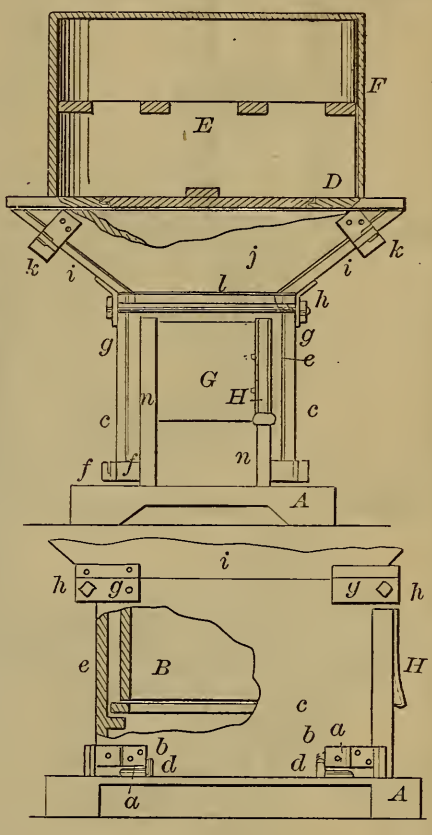
83686—E. Blunt, Jr.—*Coffee Pot.*



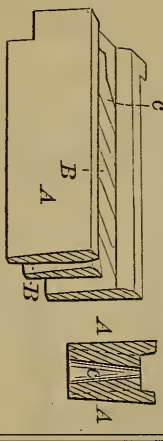
83687—J. A. Borgort—*Pile Driver.*



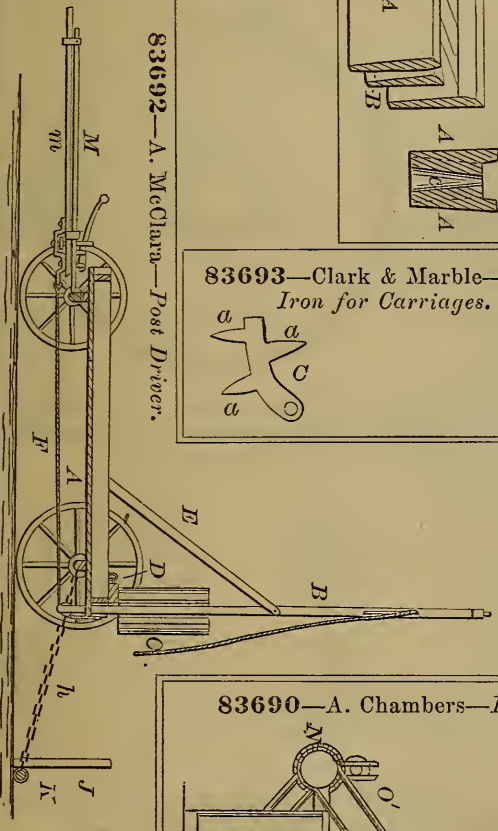
83688—H. Brown—*Cooking Stove.*



83689—W. C. Cambridge—*Furnace Grate Bar.*

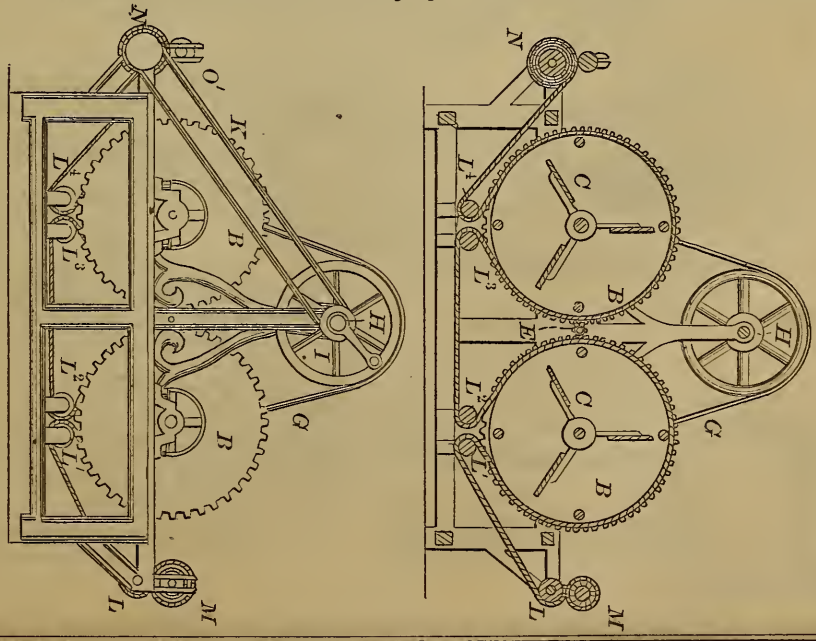


83692—A. McClara—*Post Driver.*

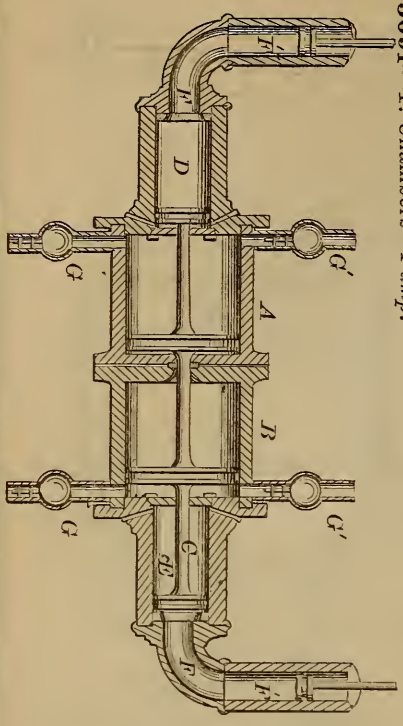


83693—Clark & Marble—*Bow Iron for Carriages.*

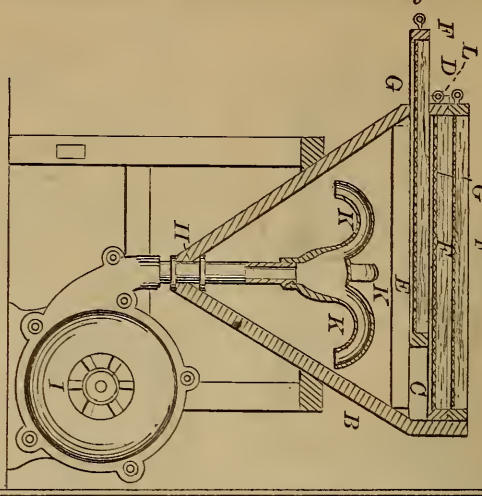
83690—A. Chambers—*For Drying Cloth.*

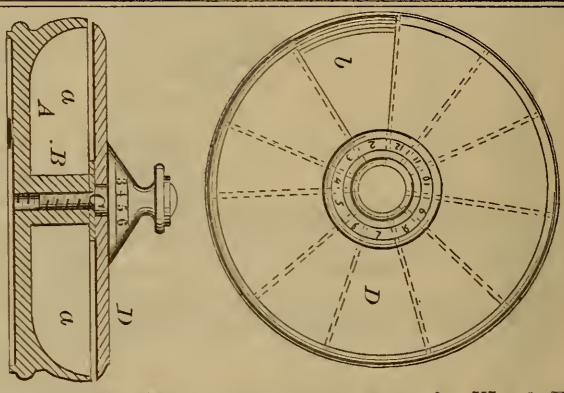


83691—T. Chambers—*Pump.*



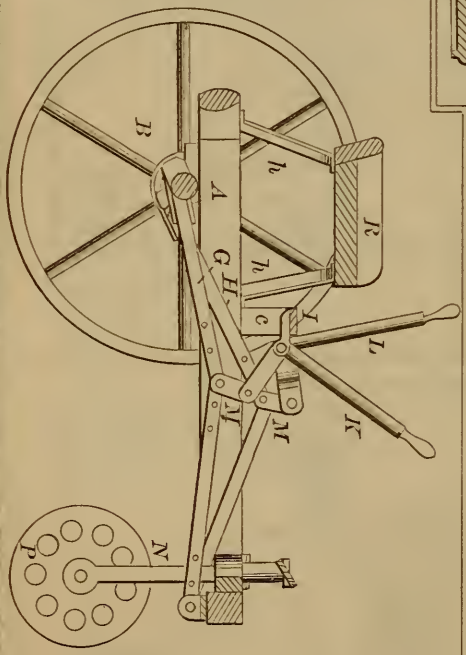
83694—S. T. Cotterill—*Tobacco Dryer.*



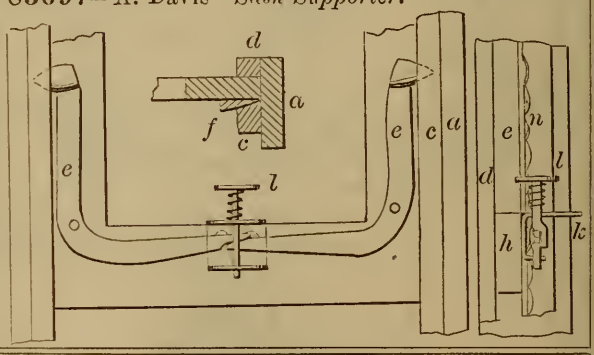


83695—M. Z. Crane—*Receptacle for Watch Keys.*

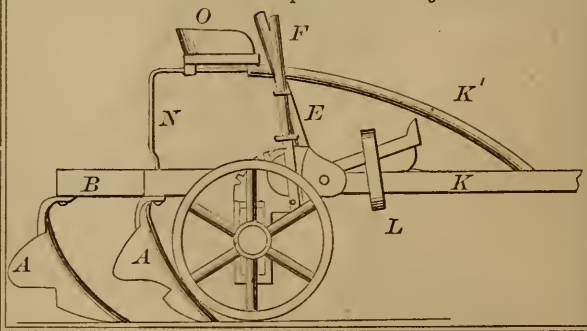
83696—C. N. Cutter—*Velocipede.*



83697—A. Davis—*Sash Supporter.*

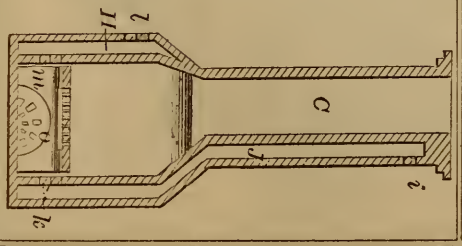


83698—Davison & Spencer—*Gang Plow.*

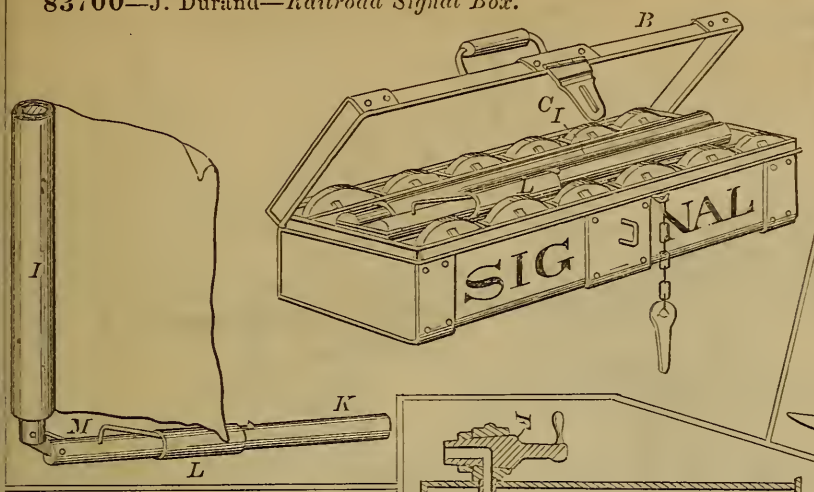


83699—A. C. & I. L. Dunn—*Spike with Screw Threads.*

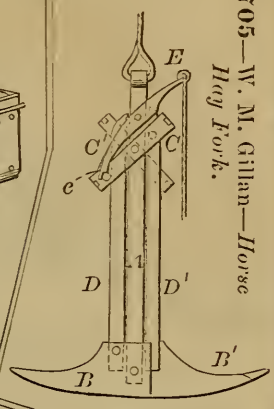
83701—J. Ervin, Sr.—*Fireplace.*

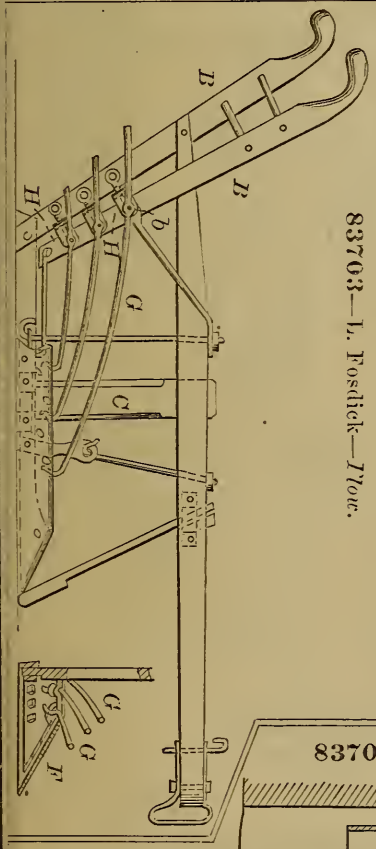


83700—J. Durand—*Railroad Signal Box.*

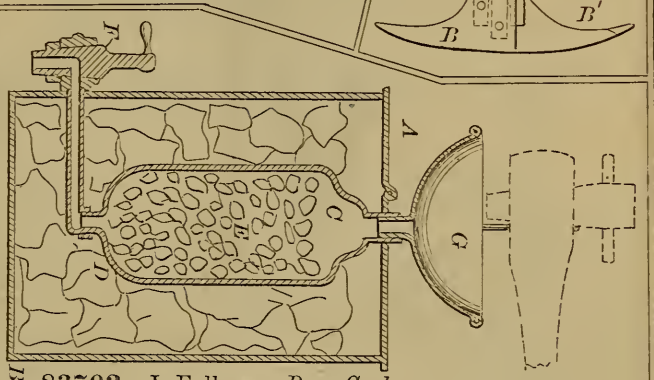


83705—W. M. Gillan—*Hay Fork.*



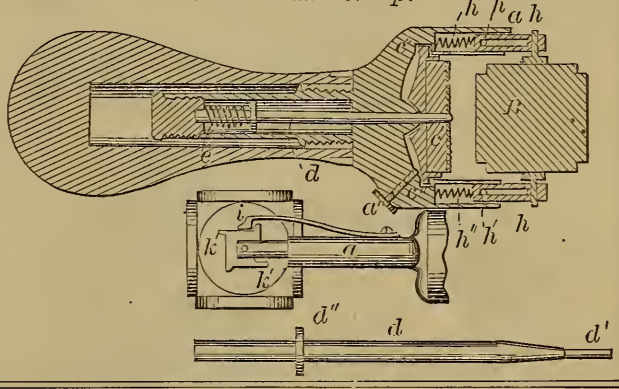


83703—L. Postlick—*Flue.*

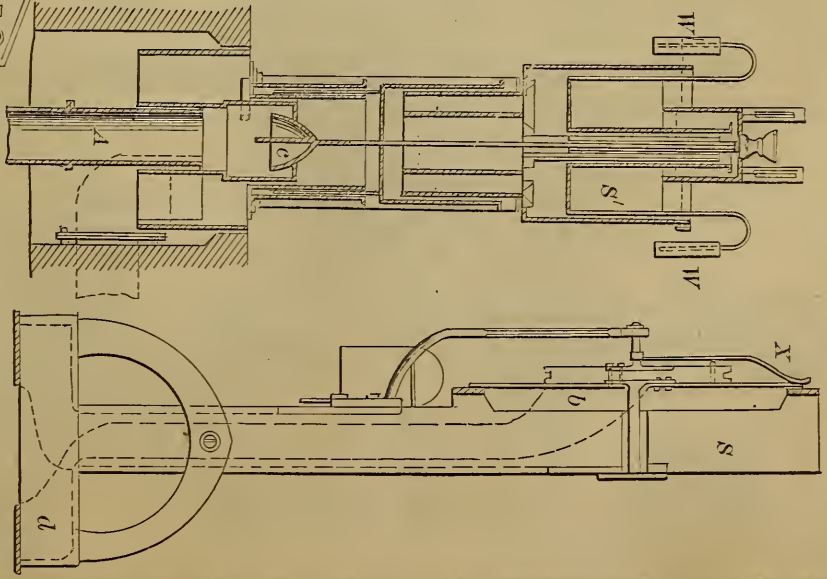


83702—J. Fallows—*Beer Cooler.*

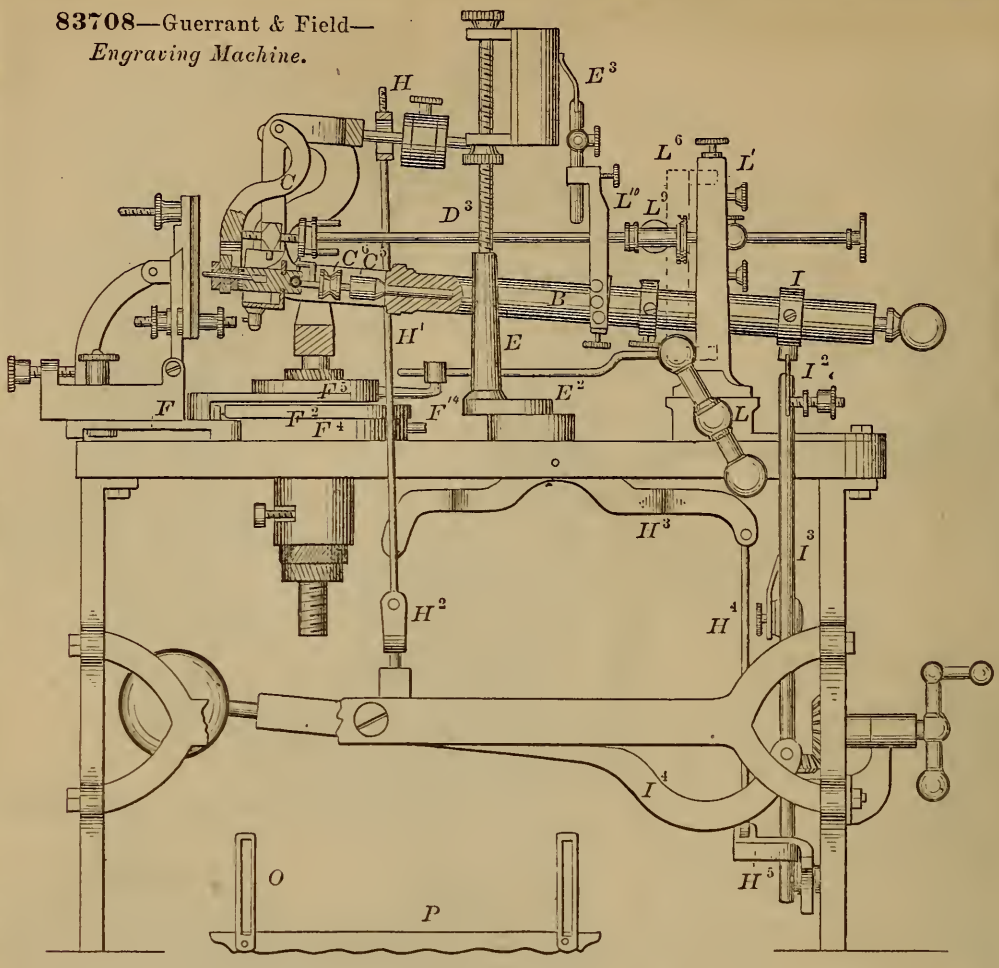
83704—L. H. Gano—*Hand Stamp.*

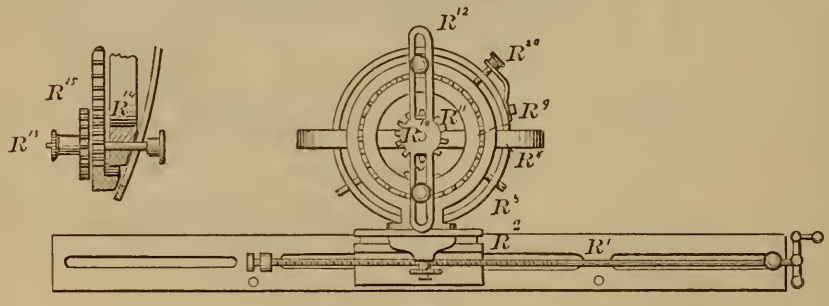


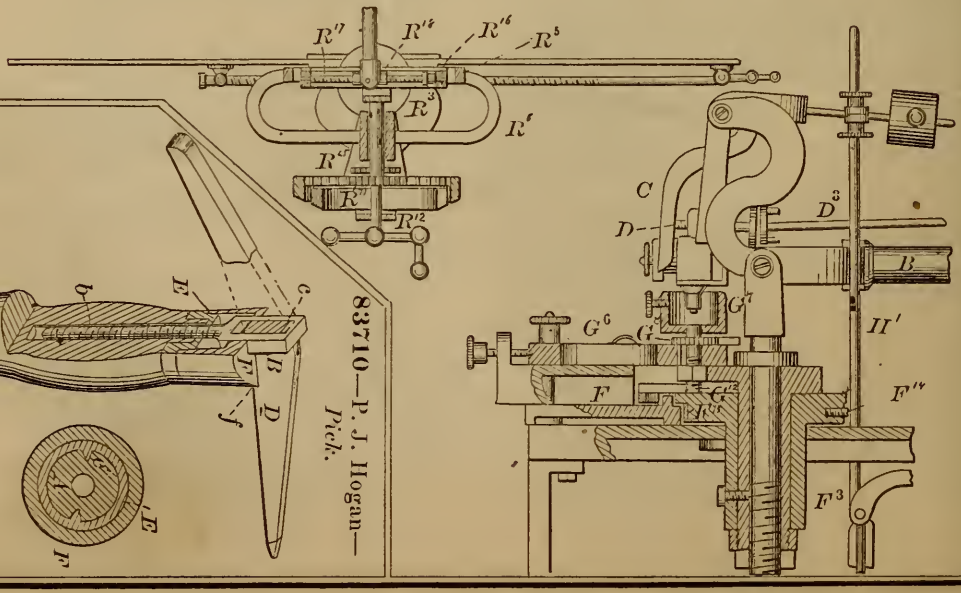
83706—H. Giroud—*Gas Regulator.*



83708—Guerrant & Field—
Engraving Machine.

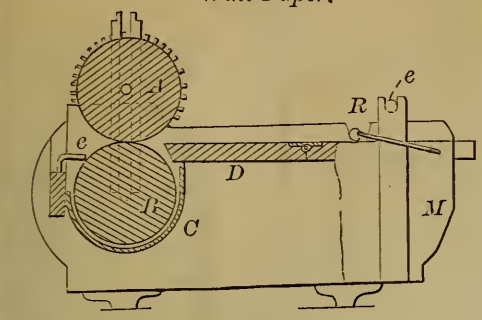


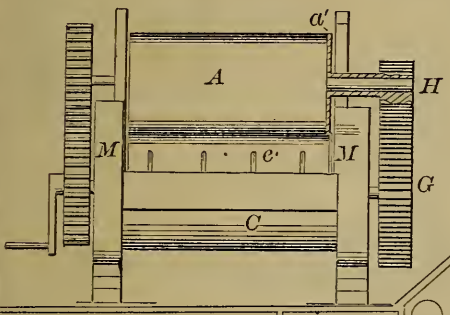




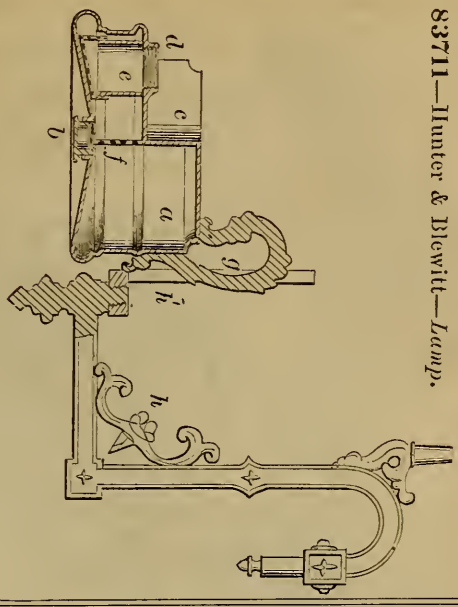
83710—P. J. Hogan—
Pick.

83709—W. H. Guthrie—*For Trimming Wall Paper.*

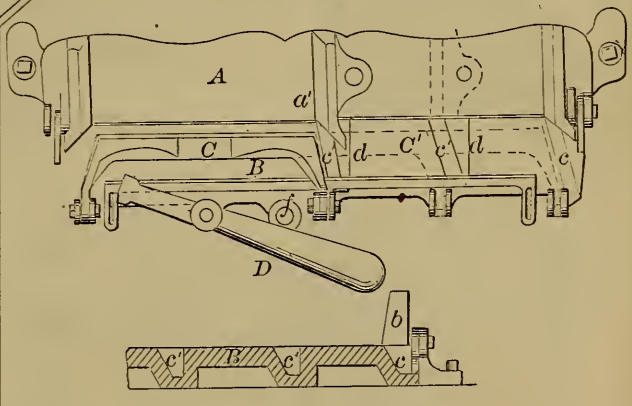




83711—Hunter & Blewitt—*Lamp.*

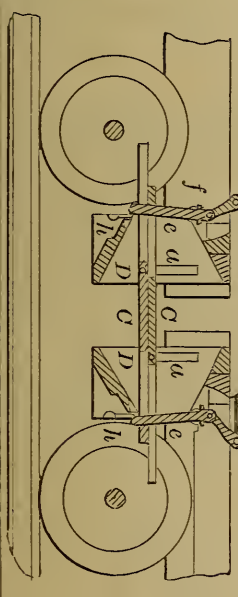


83712—S. H. Kennedy—*For Forming Sheet Metal Pans.*

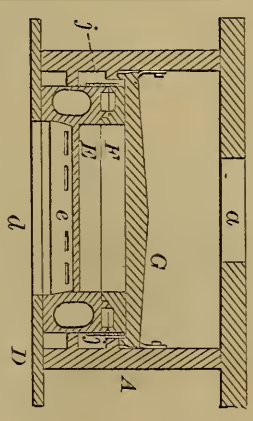


83713—H. C. Knowlton—*Chair Seat.*

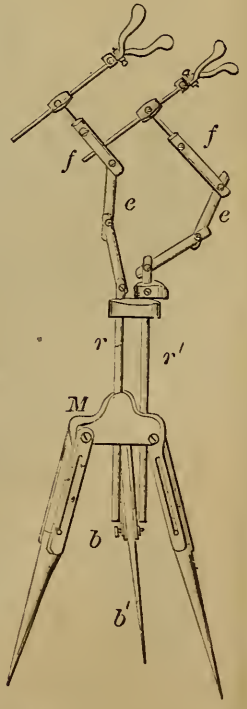
83715—J. K. Landis—*Car Coupling.*



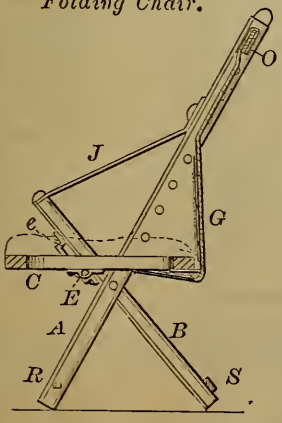
83716—E. B. Latch—*Slide Valve.*



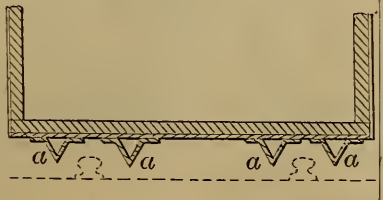
83714—C. E. Krüger—*Photographic Rest.*



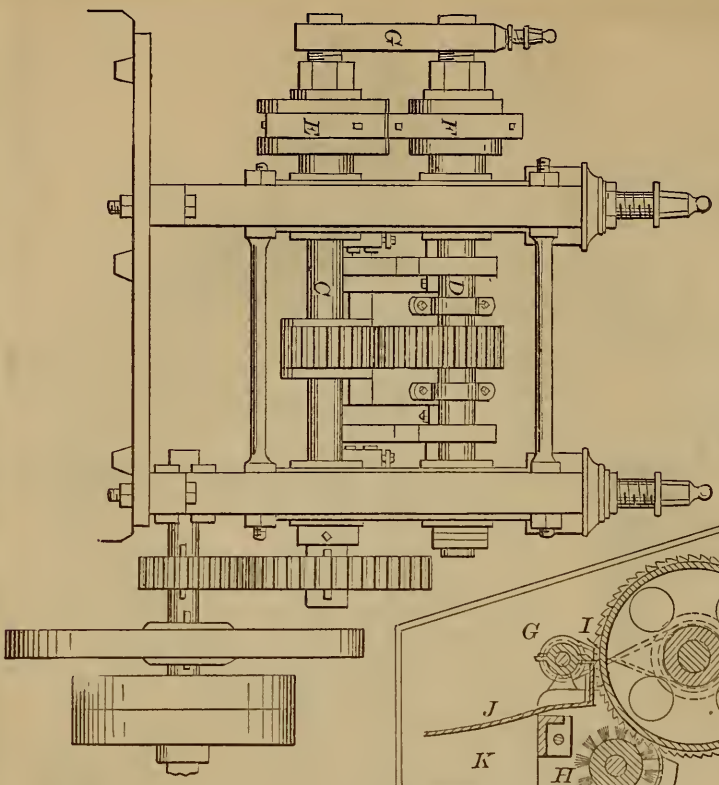
83720—G. McAleer—*Folding Chair.*



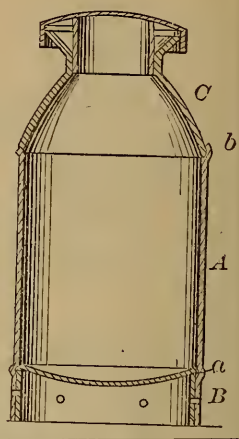
83717—E. T. Ligon—*Railway Car.*



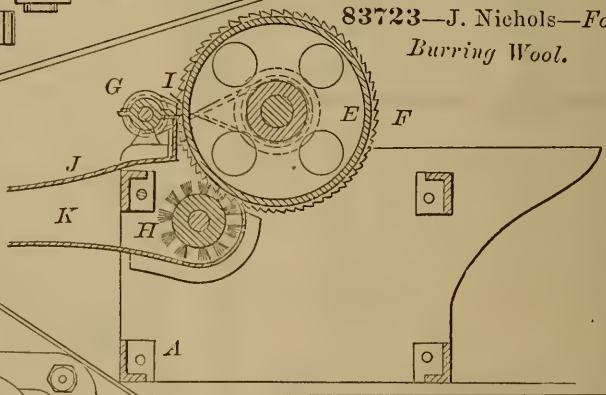
83718—R. Marsden—*For Rolling Metals.*

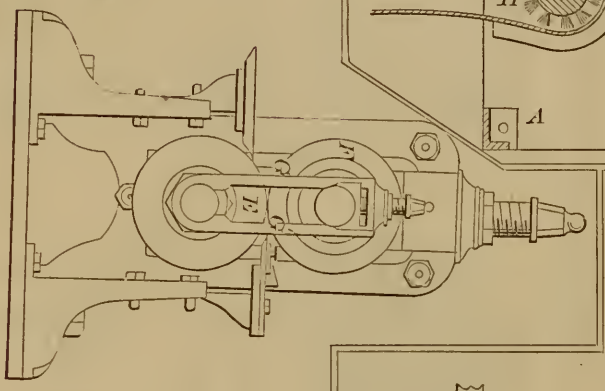


83724—O. J. Nutting—*Milk Can.*

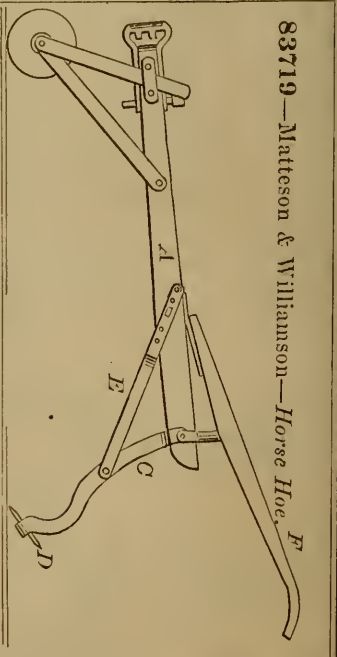


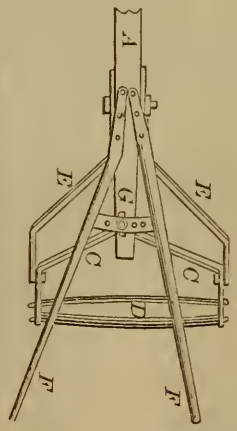
83723—J. Nichols—*For Burring Wool.*



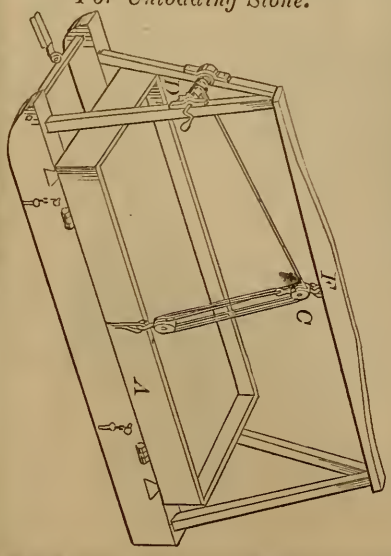


83719—Matteson & Williamson—*Horse Hoe.*



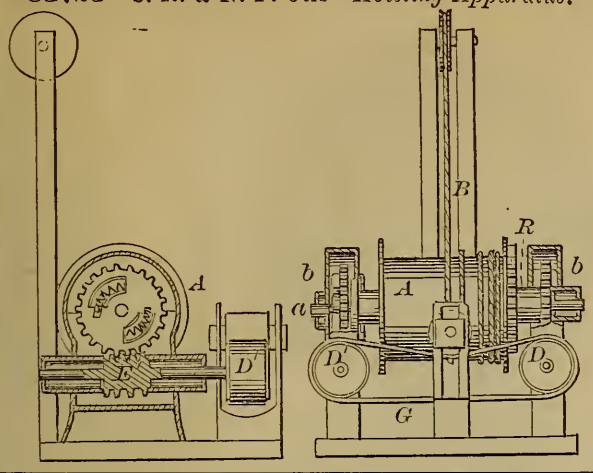


83721—J. B. & E. G. Moore—*For Unloading Stone.*

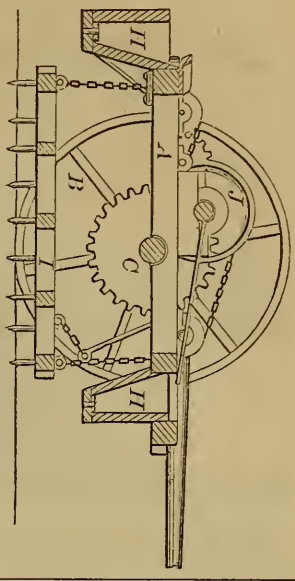


83722—G. Natorp—*Car Wheel.*

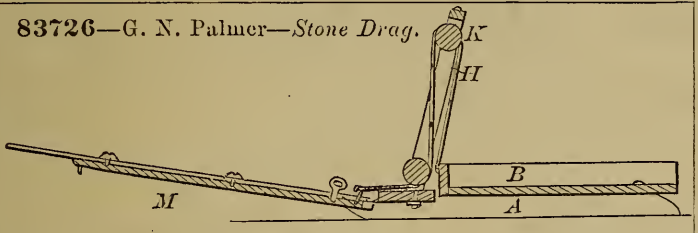
83725—C. R. & N. P. Otis—*Hoisting Apparatus.*



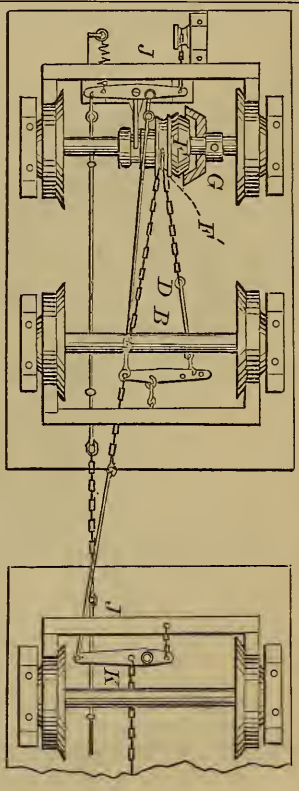
83727—W. E. Phelps—*Seeder and Harrow.*



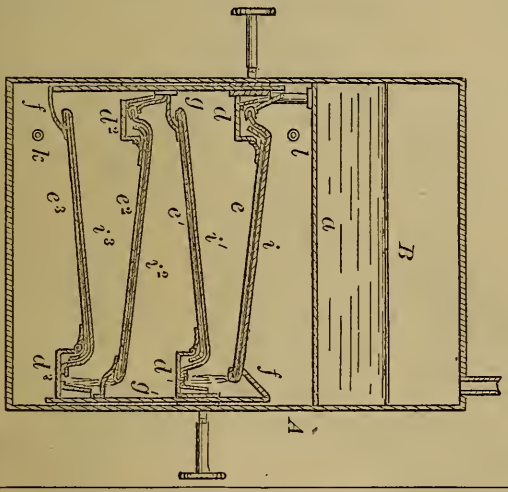
83726—G. N. Palmer—*Stone Drag.*



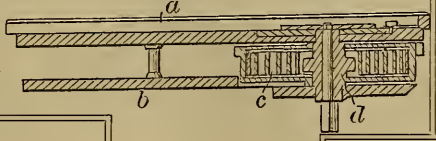
83728—S. Randall—*Car Brake.*



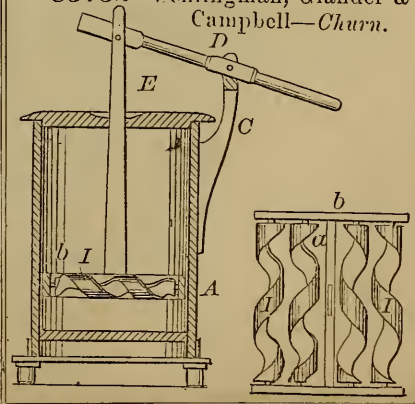
83730—J. Richard—*Forcarburetting Air.*



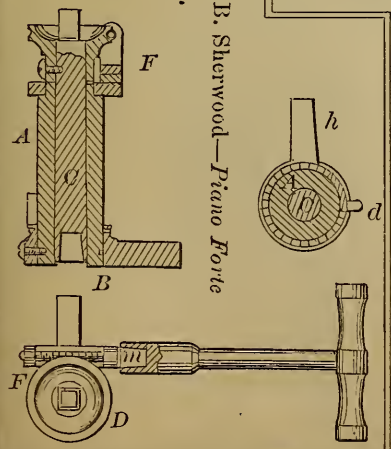
83729—G. W. Reed—*Watch.*



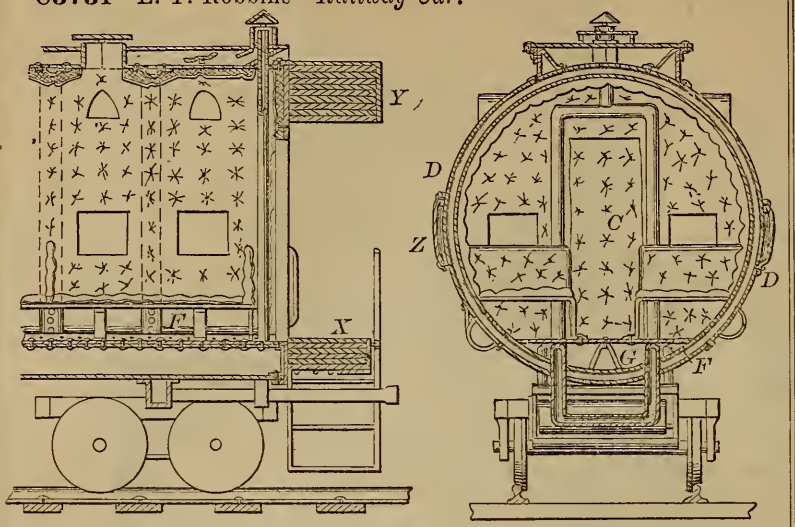
83732—Schlingman, Glander & Campbell—*Churn.*



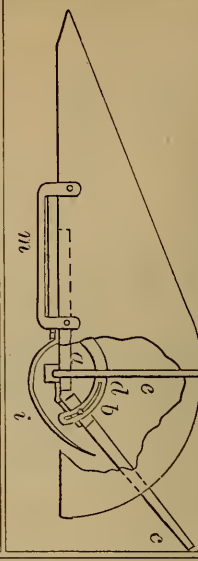
83734—N. B. Sherwood—*Piano Forte Tuning Key.*



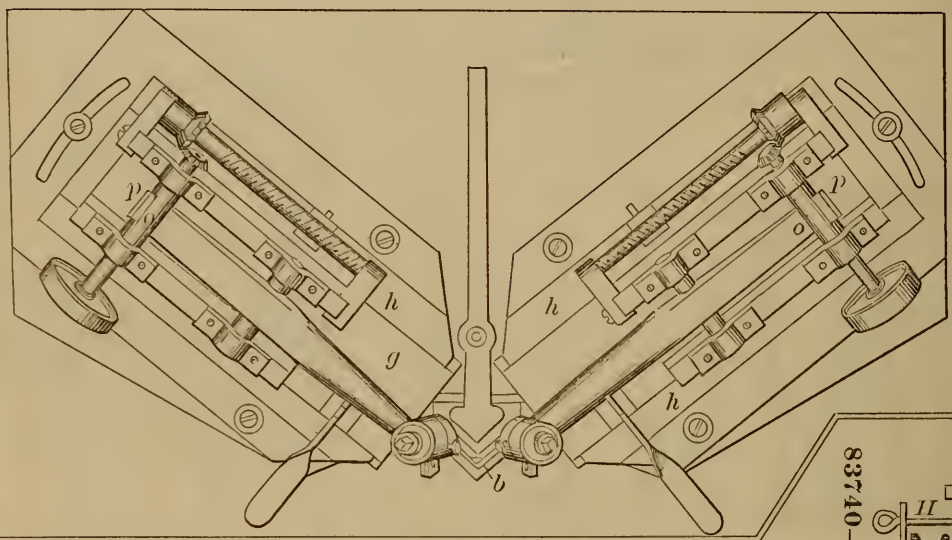
83731—E. Y. Robbins—*Railway Car.*



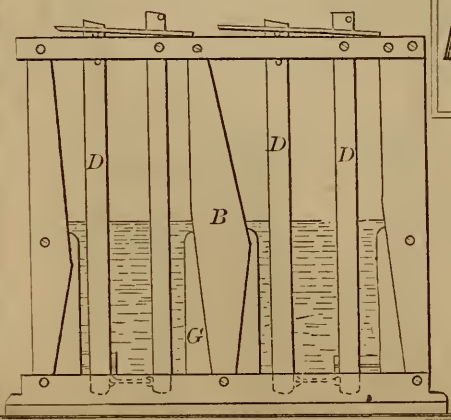
83735—A. H. Shreffler—*Harvester.*



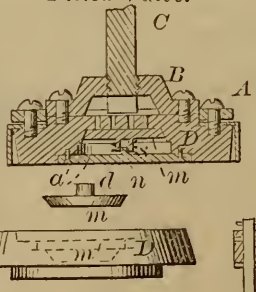
83736—A. A. & G. F. Simonds—*For Serrating Sickle Sections.*

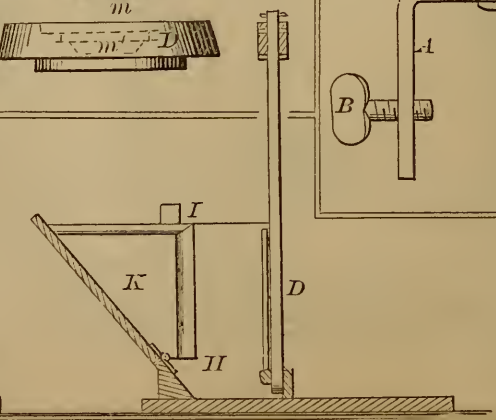


83738—W. F. Stanley—*Manger.*

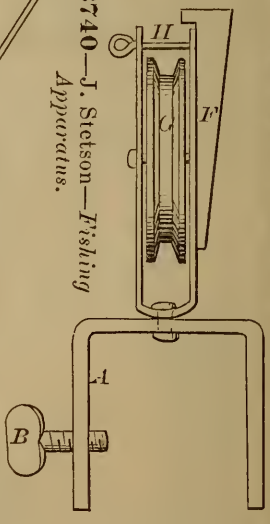


83739—M. C. Stebbins—*Piston Valve.*

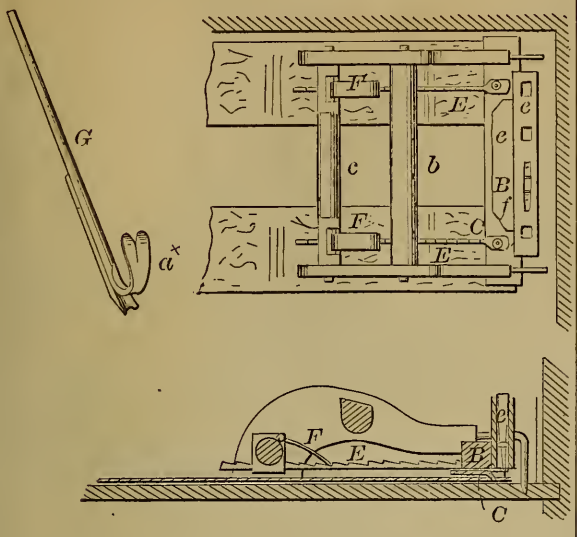




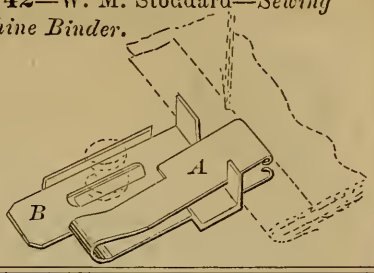
83740—J. Stetson—*Fishing Apparatus.*



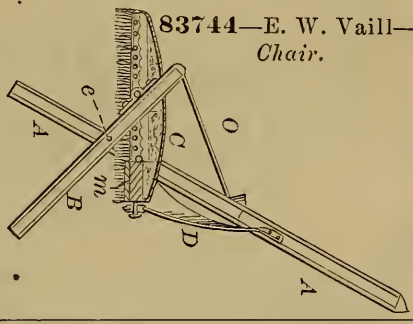
83741—S. Stevenson—*Carpet Stretcher.*



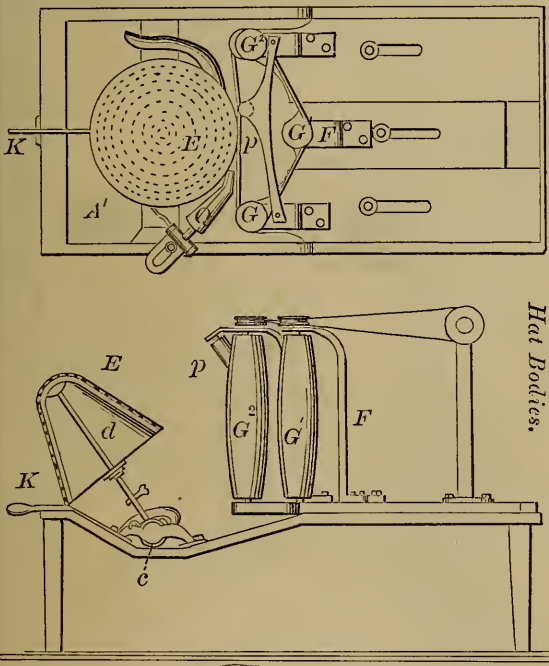
83742—W. M. Stoddard—*Sewing Machine Binder.*



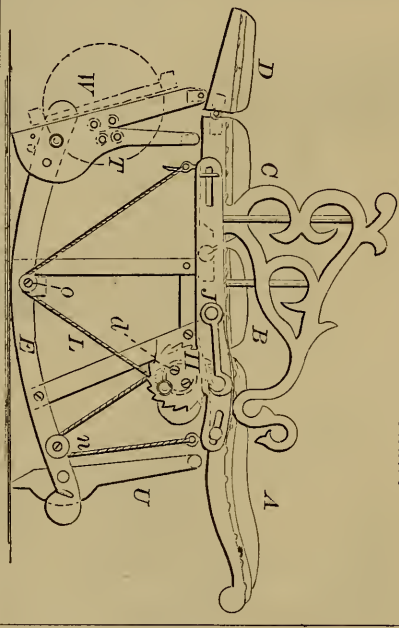
83744—E. W. Vaill—*Chair.*



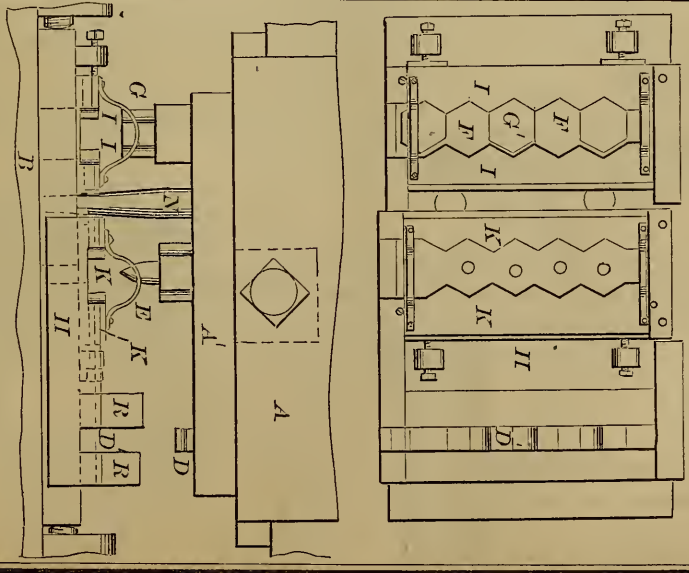
83743—Storm & Ennis—*For Fulling and Felting Hat Bodies.*



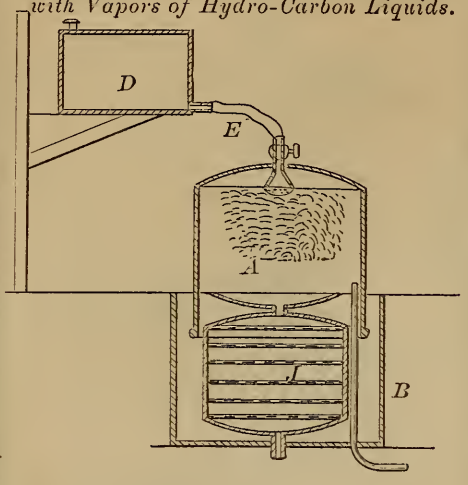
83746—L. M. Whitman—*Invalid Chair.*



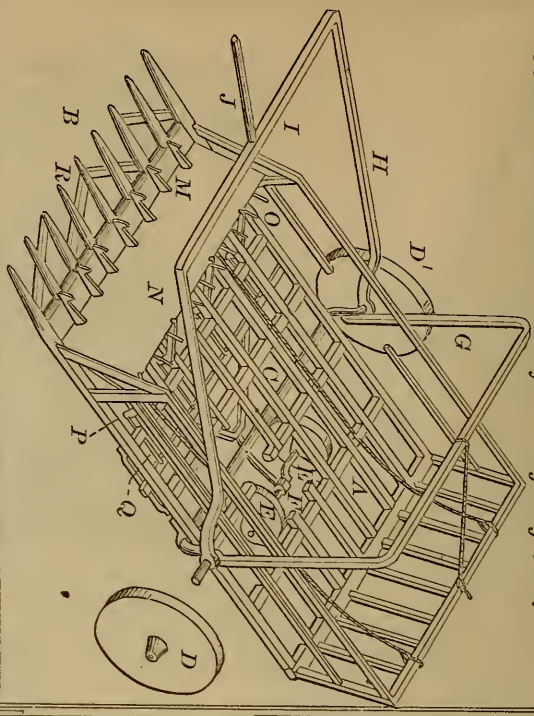
83745—S. Vanstone—*For Making Nuts.*



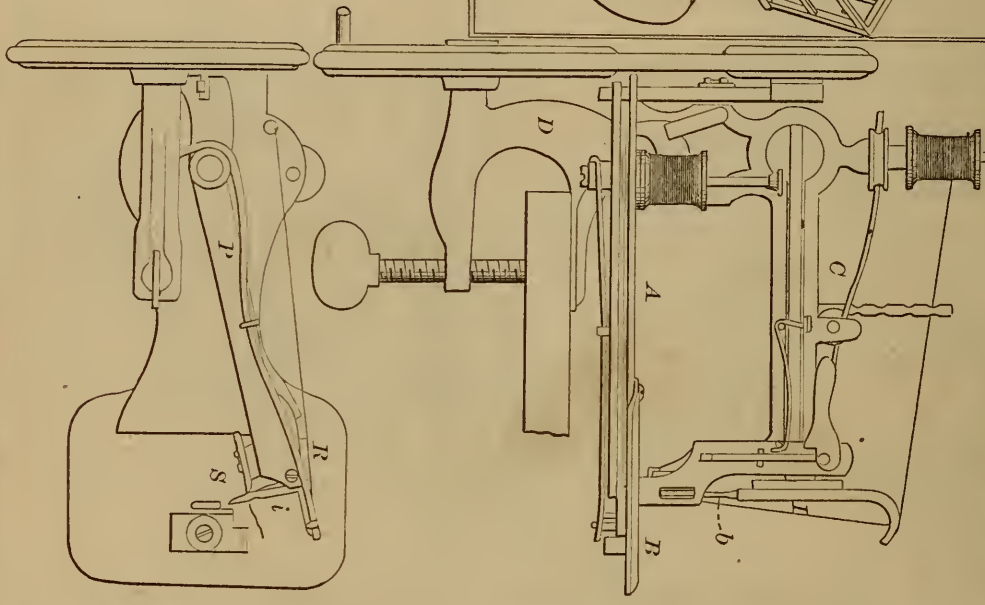
83748—C. M. Williams—*Charging Gases with Vapors of Hydro-Carbon Liquids.*

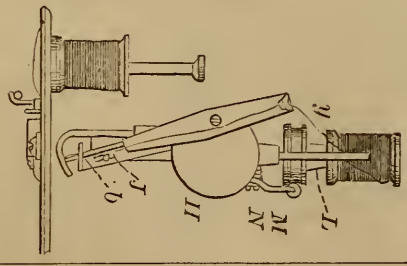


83749—I. M. Williams—*Self-Loading Hay Cart.*

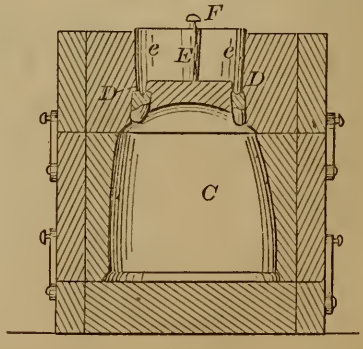


83750—Willmarth & Farr—*Sewing Machine.*

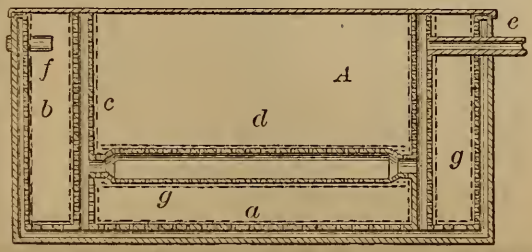




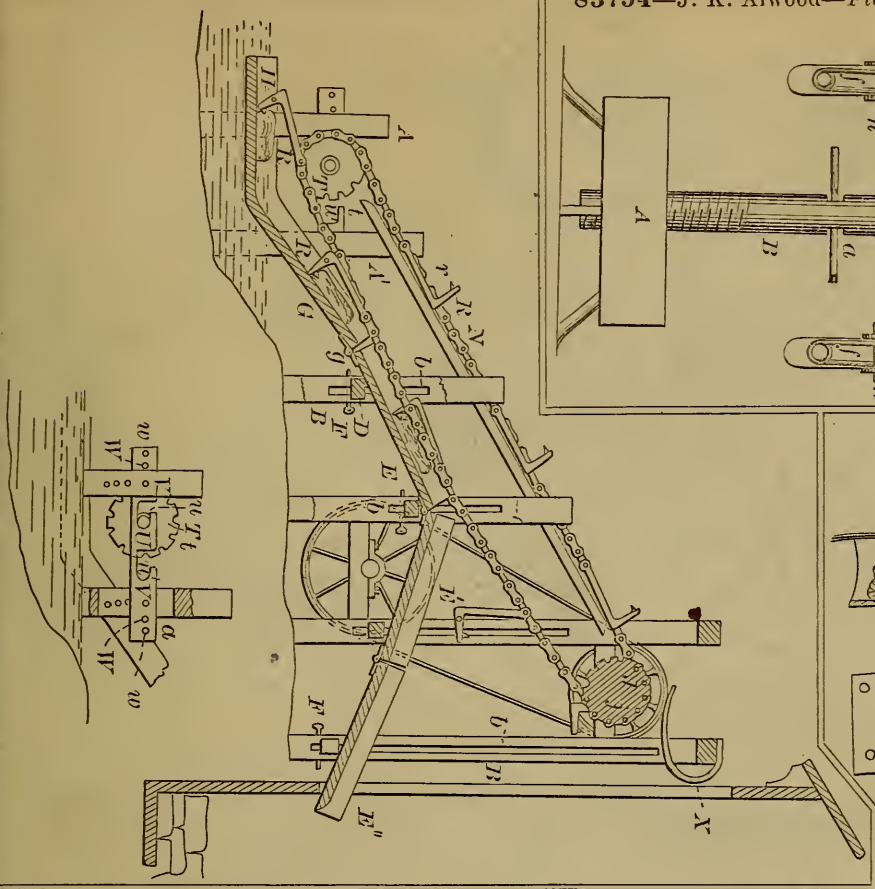
83751—J. Ziegler—*Casting Hollow Ware.*



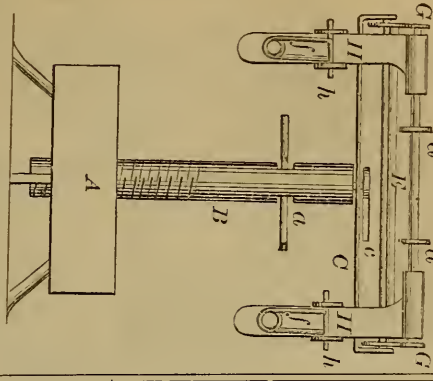
83753—C. Alden—*Treating and Storing Grain.*



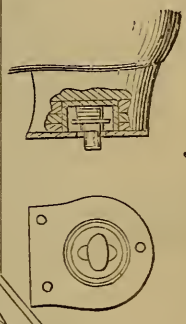
83752—R. S. Zilar—*Ice Elevator.*



83754—J. K. Alwood—*Fleecing Cradle.*

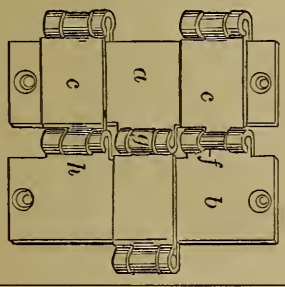


83756—E. Brady—*Skate Fastening.*

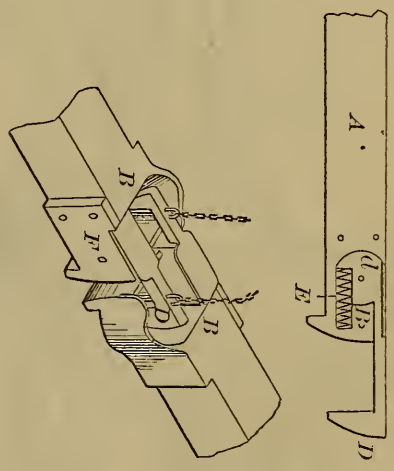


83757—C. B. Bristol—*Curry Comb.*

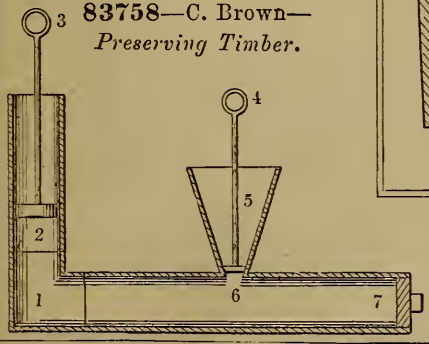
83760—J. H. Carkeet—*Butt Hinge.*



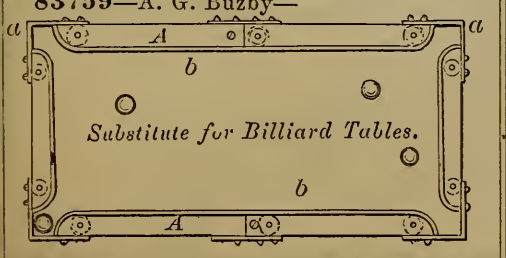
83761—S. K. Christy—*Car Coupler.*



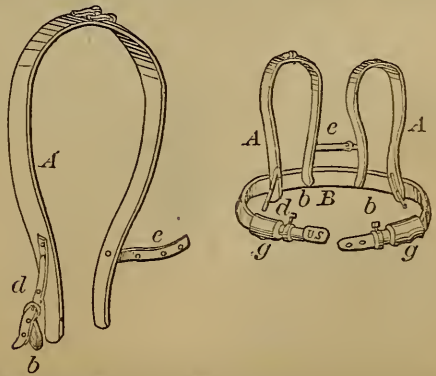
83758—C. Brown—*Preserving Timber.*



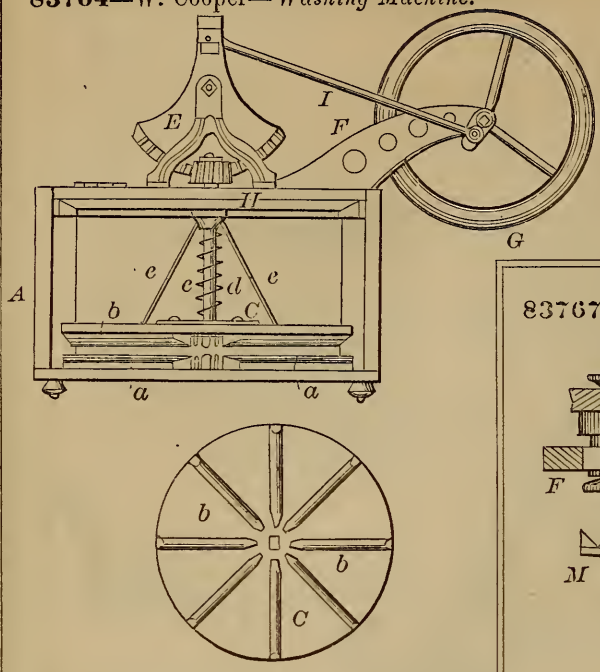
83759—A. G. Buzby—*Substitute for Billiard Tables.*



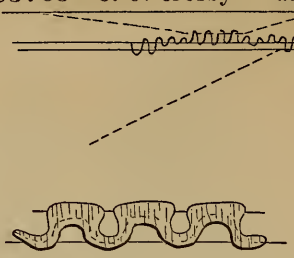
83762—W. Clifford—*Carrying Knapsacks.*



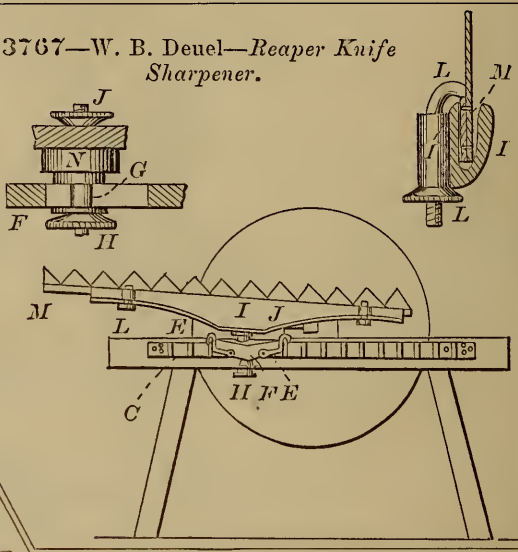
83764—W. Cooper—*Washing Machine.*



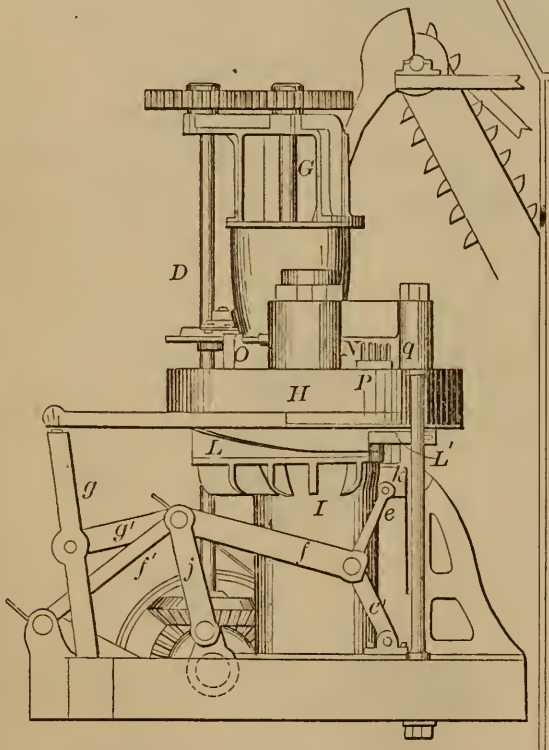
83765—C. O. Crosby—*Tatting.*

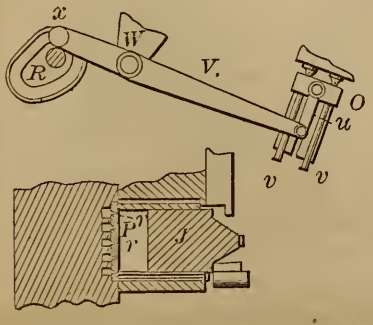


83767—W. B. Deuel—*Reaper Knife Sharpener.*

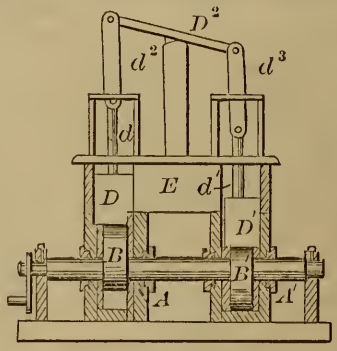


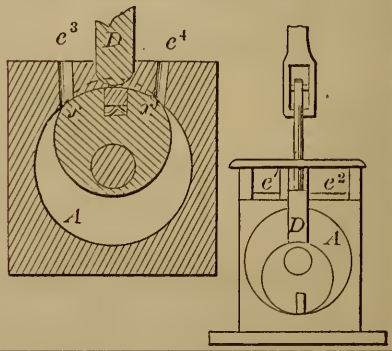
83769—E. Faron—*Brick Machine.*



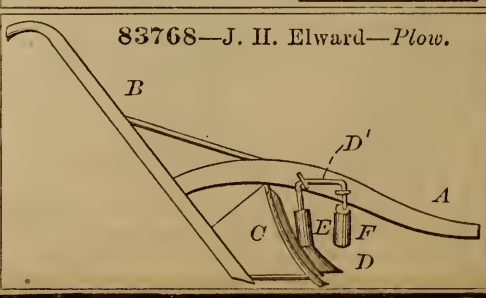


83766—D. Currie—*Steam Engine.*



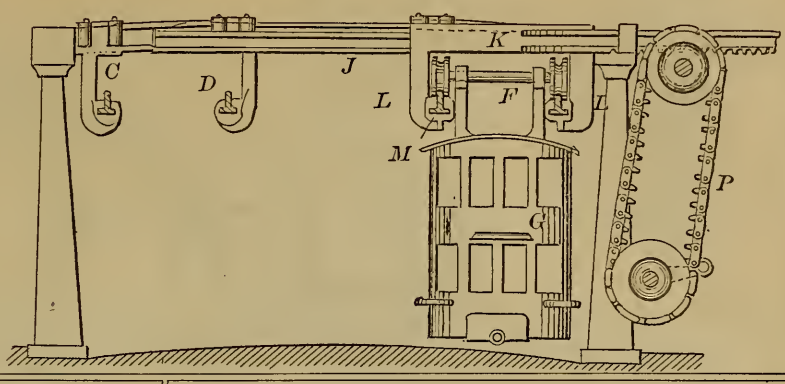


83768—J. H. Elward—*Plow.*

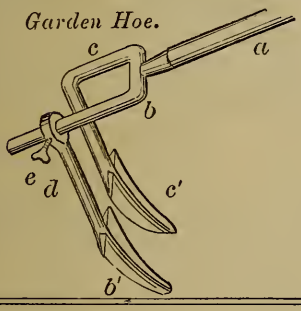


83770—M. Fitzgibbons—*Bor.*

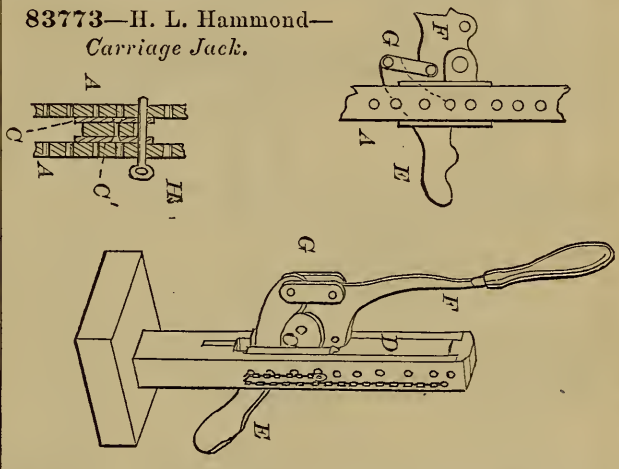
83772—O. Grantner—*Elevated Railway.*



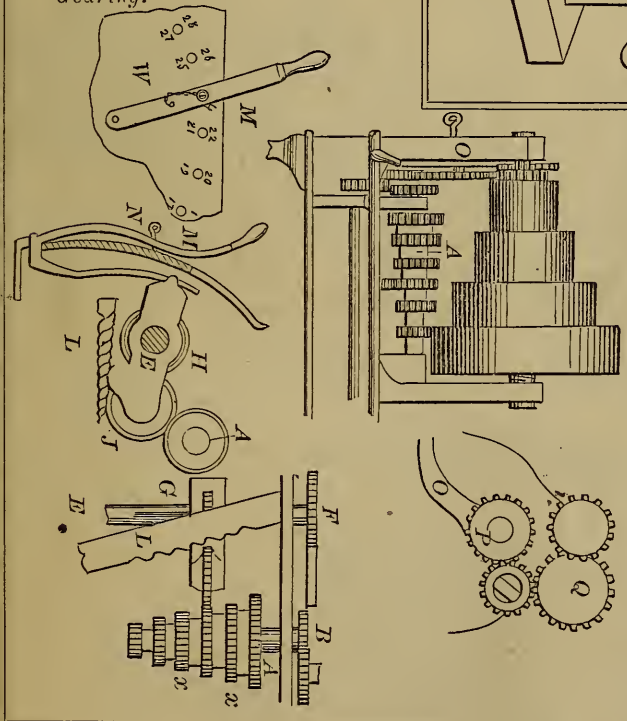
83771—M. H. Fletcher—*Garden Hoe.*



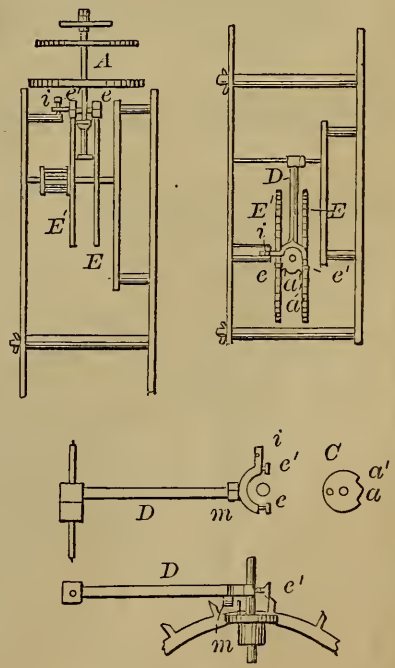
83773—H. L. Hammond—*Carriage Jack.*



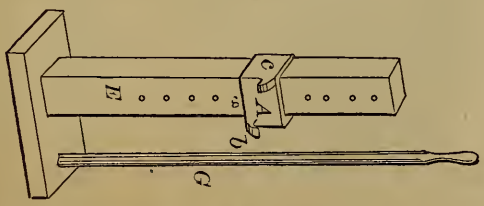
83774—J. Humphreys—*Lathe Gearing.*



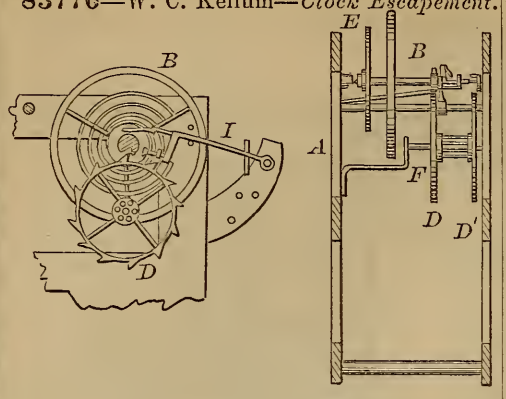
83775—W. C. Kellum—*Clock Escapement.*



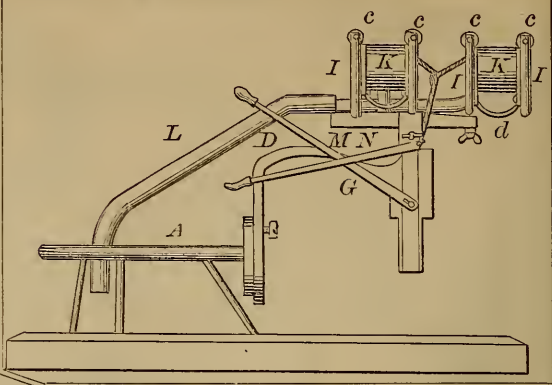
83778—H. W. Long—*Wagon Jack.*



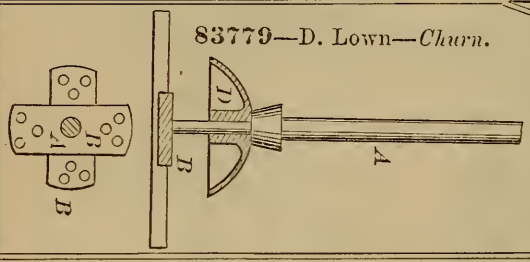
83776—W. C. Kellum—*Clock Escapement.*



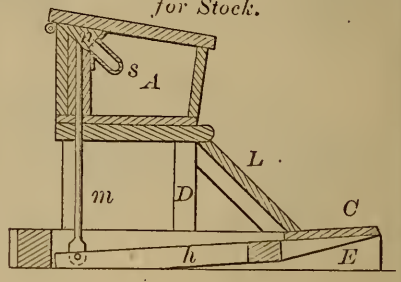
83777—T. H. Lindley—*For Milking Cows.*



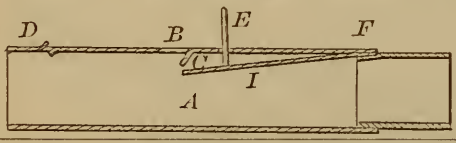
83779—D. Lown—*Churn.*



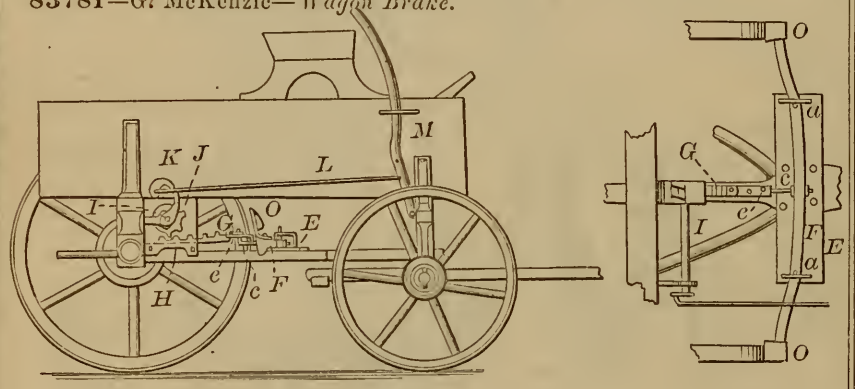
83780—G. T. Marshall—*Salting Trough for Stock.*



83782—G. Morgan—*Wind Elevator of Grain.*

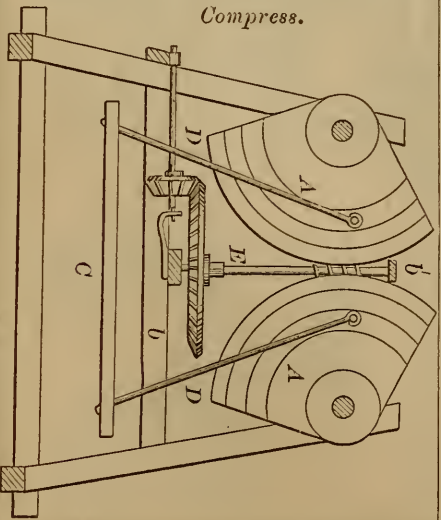


83781—G. McKenzie—*Wagon Brake.*

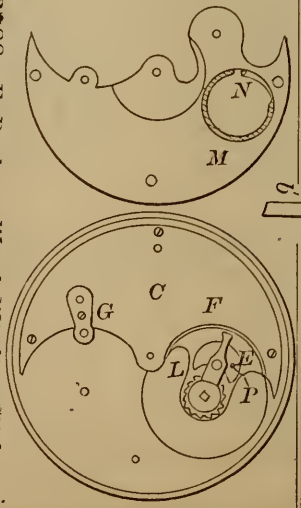


83787—C. B. Payne—*Gag Swivel.*

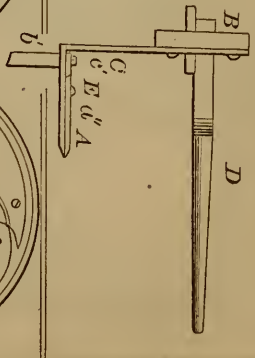
83783—E. L. Morse—*Cotton Compress.*



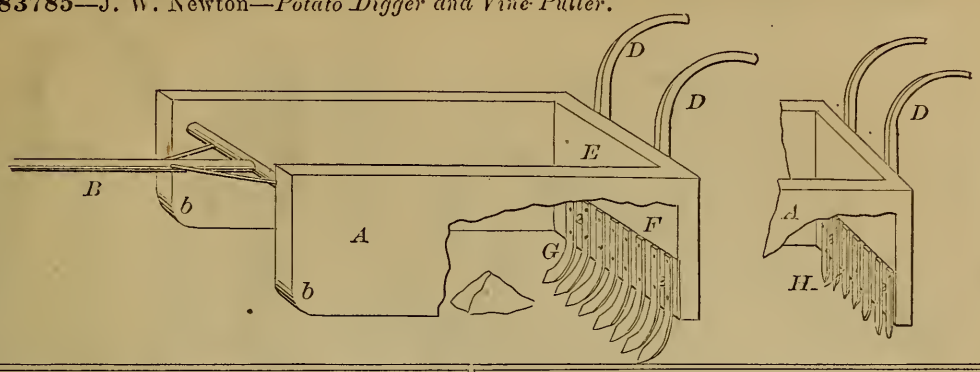
83788—E. Paulus—*Watch Winding Click.*



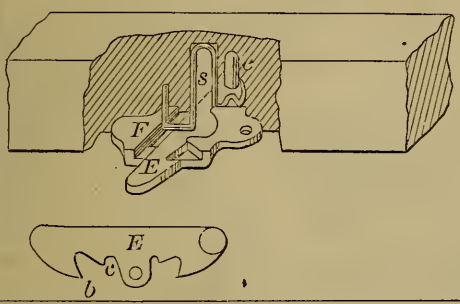
83784—J. W. Newton—*Bog Cutter and Drag.*



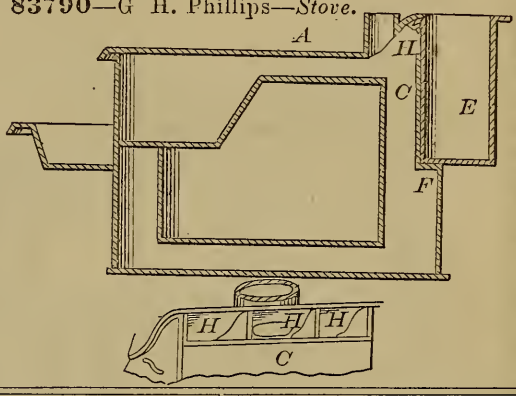
83785—J. W. Newton—*Potato Digger and Vine Puller.*



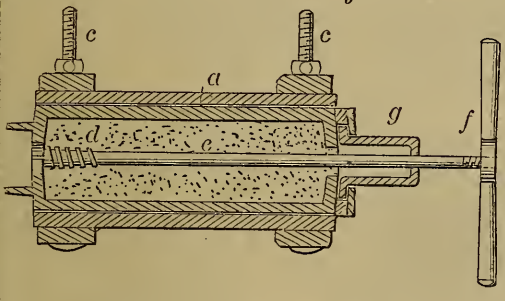
83789—W. Phelps, Jr.— *Blind Fastener.*



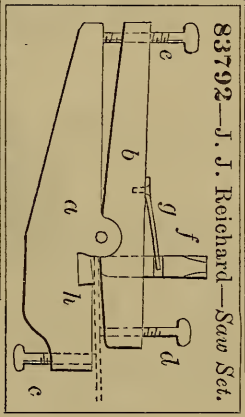
83790—G H. Phillips—*Stove.*



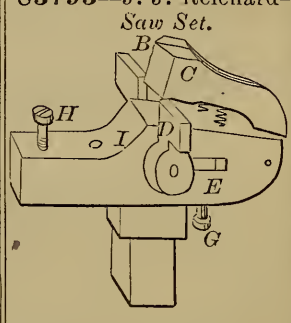
83791—W. Potts—*Moulding Screws.*



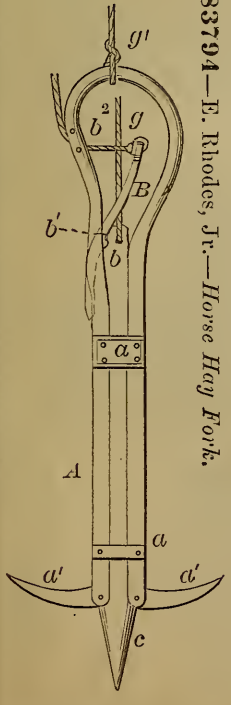
83792—J. J. Reichard—*Saw Set.*



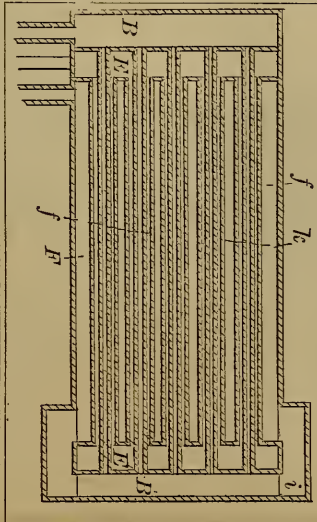
83793—J. J. Reichard—*Saw Set.*

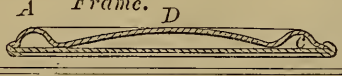


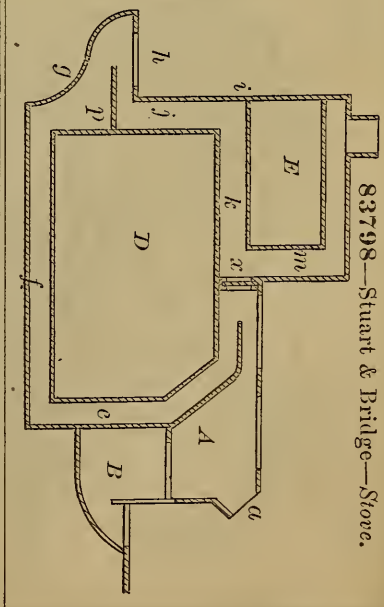
83794—E. Rhodes, Jr.—*Horse Hay Fork.*



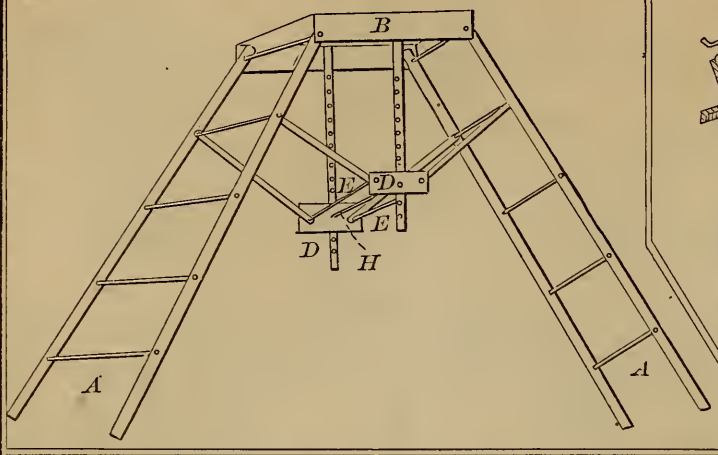
83796—H. Sabin—*Water Heater.*



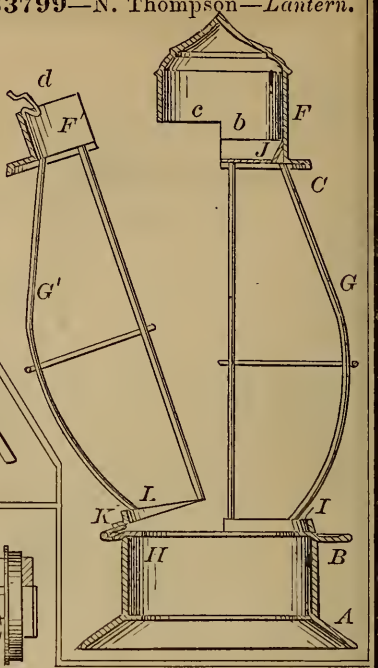
83797—J. T. Schmitt—*Picture Frame.*

83798—Stuart & Bridge—*Stove.*



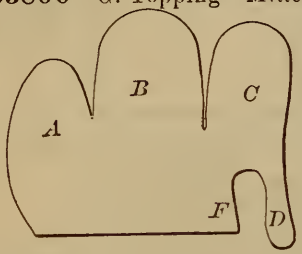
83795—C. S. Rouse—*Step Ladder.*

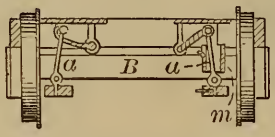


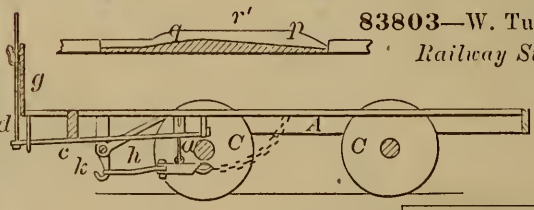
83799—N. Thompson—*Lantern.*



83800—G. Topping—*Mitten.*

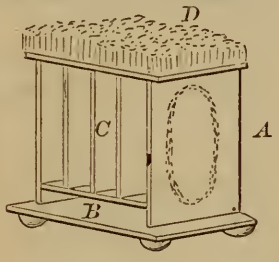


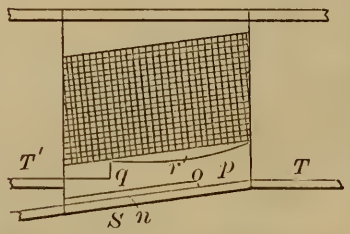


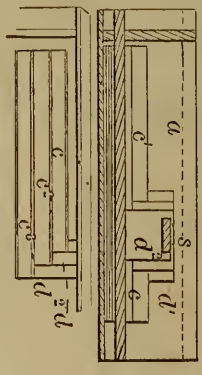


83803—W. Tuttle—*Street Railway Switch.*

83801—A. N. Towne—*Music Stool and Rack.*

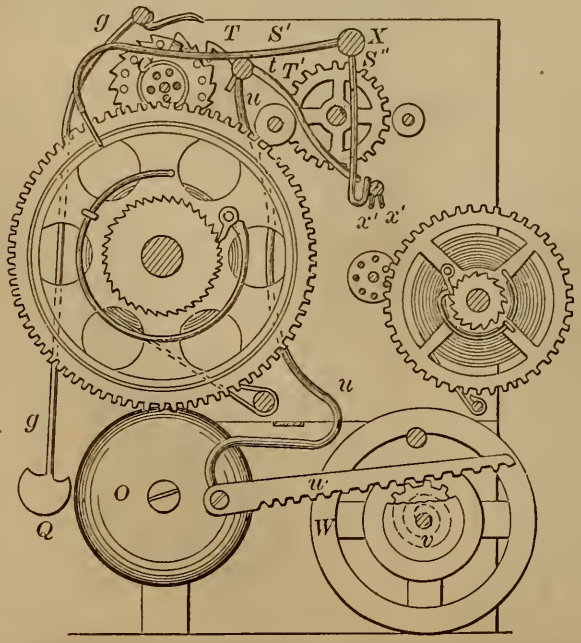


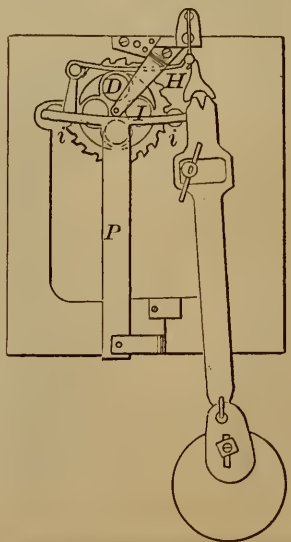




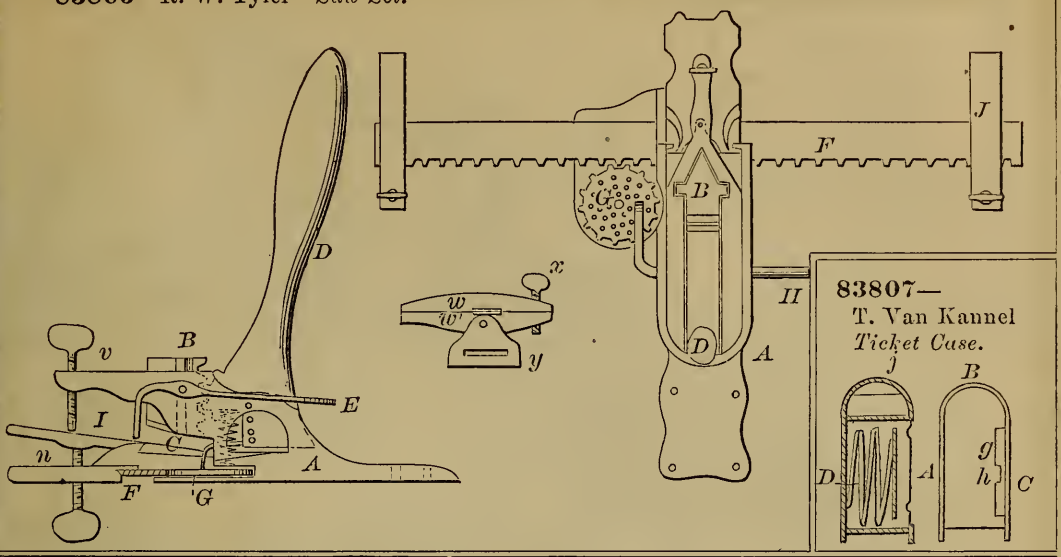
83804—P. S. Tyler—*Paper Boat.*

83802—M. Tromly—*Clock Movement.*



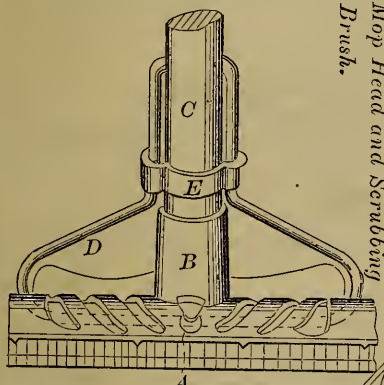


83805—R. W. Tyler—*Saw Set.*

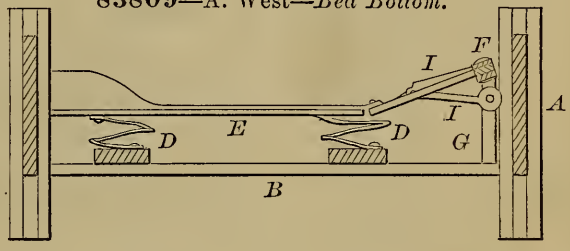


83807—
T. Van Kannel
Ticket Case.

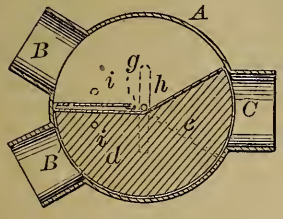
83806—W. S. Van Hoesen—*Mop Head and Scrubbing Brush.*



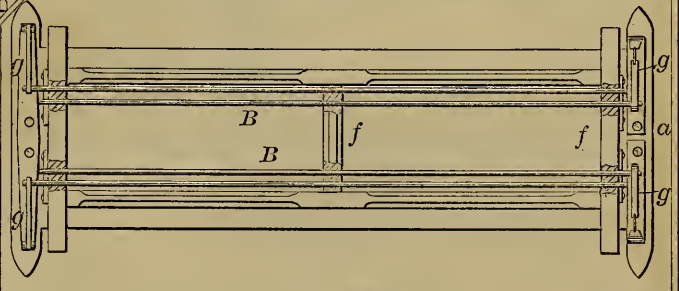
83809—A. West—*Bed Bottom.*

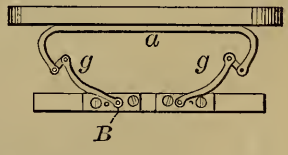


83808—Van Norman & Young—*Rain Water Cut-off.*

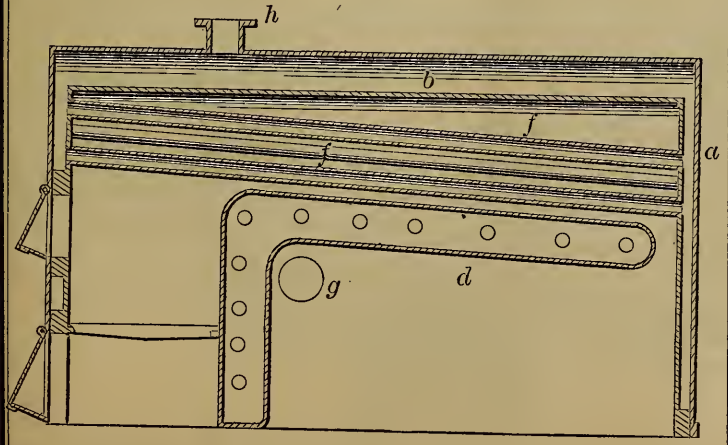


83810—W. F. Whitney—*Carriage Spring.*

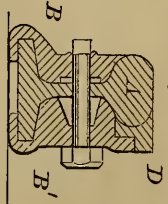




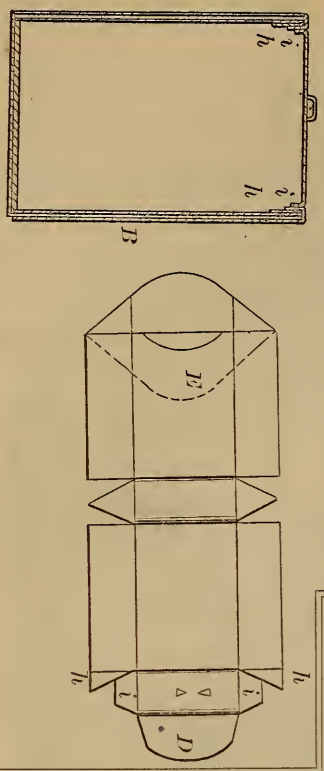
83811—C. Whittier—*Steam Generator.*



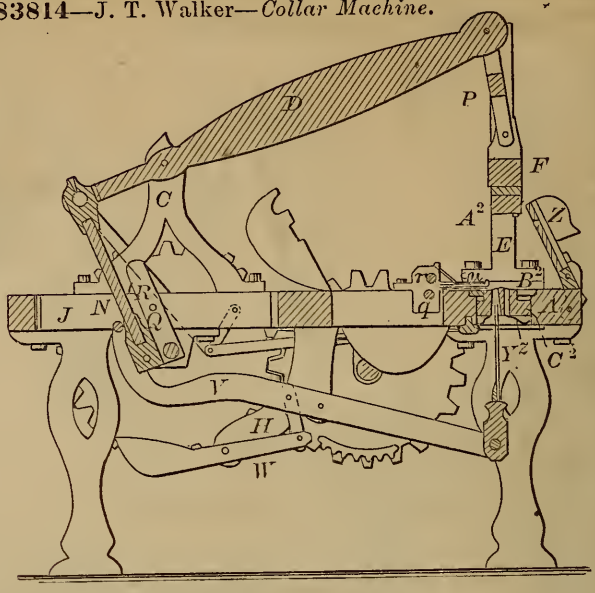
83813—J. Wixted—*Railway Rail Splice.*



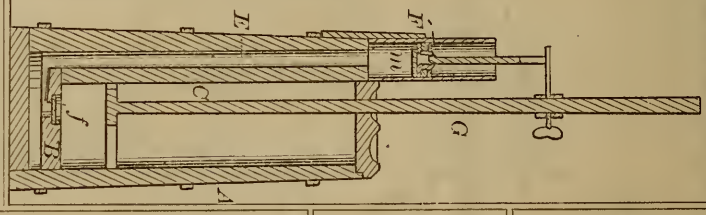
83812—J. W. Wilcox—*Box.*



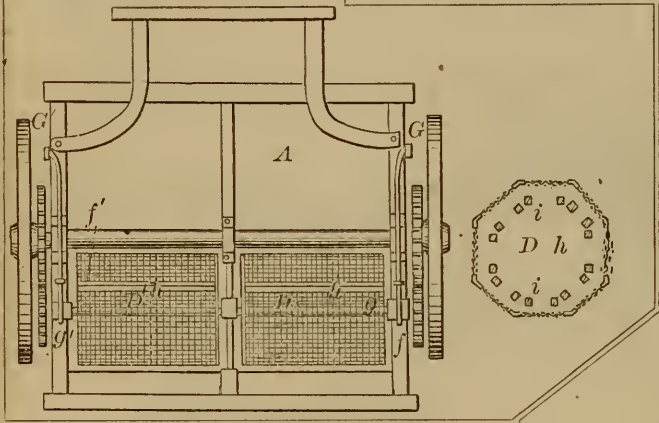
83814—J. T. Walker—*Collar Machine.*



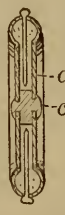
83815—S. S. Case—*Churn.*



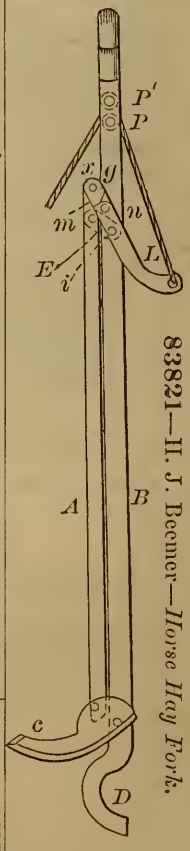
83816—G. U. Relyea—*For Spreading Plaster.*



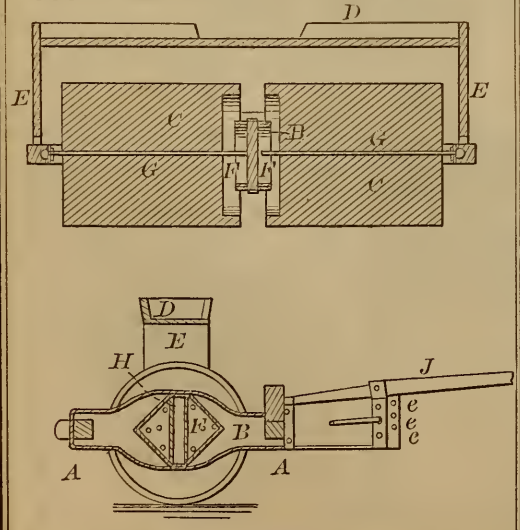
83819—L. J. Atwood—*Pin Cushion.*



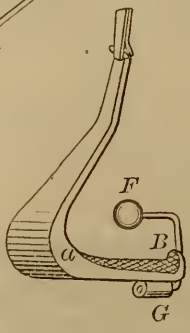
83821—H. J. Beemer—*Horse Hay Fork.*



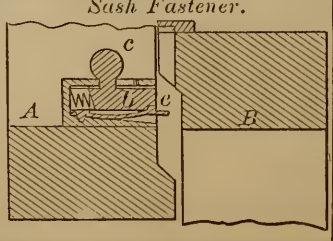
83818—W. W Andrew—*Field Roller.*



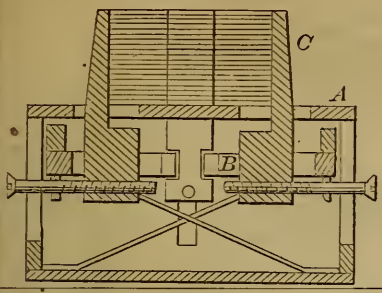
83822—E. S. Bennett—*Stirrup.*



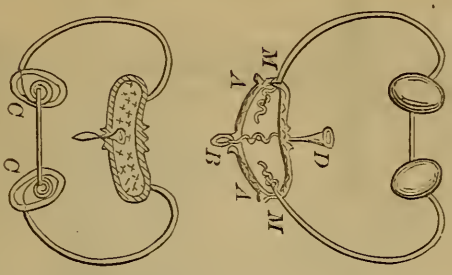
83824—Bogert & Perkins—*Sash Fastener.*



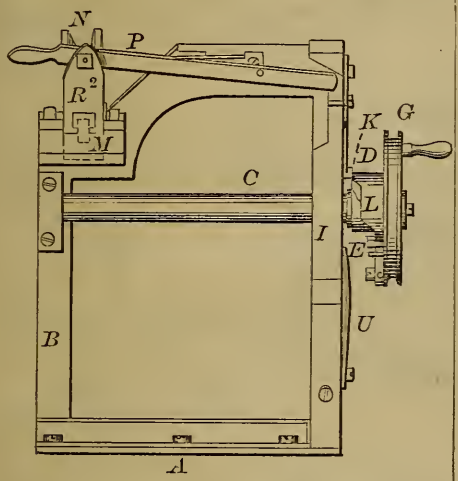
83825—W. E. Booraem—*For Pasting Labels.*

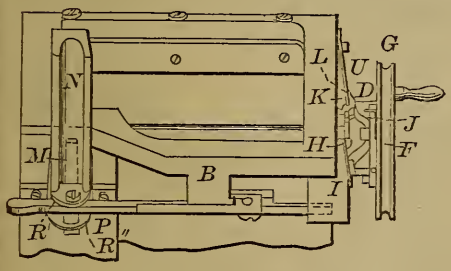


83826—J. T. Boyd—*Uterine Supporter.*

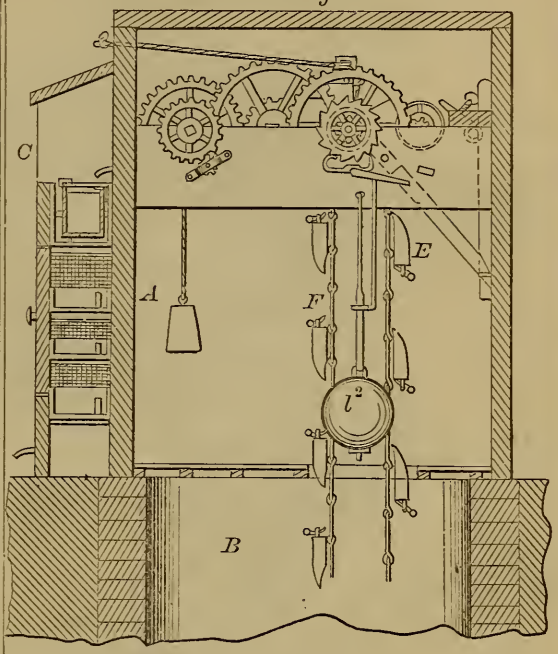


83828—D. Bruce—*Type Casting Machine.*

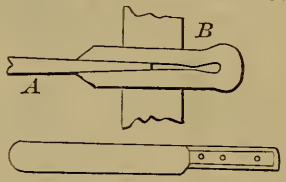




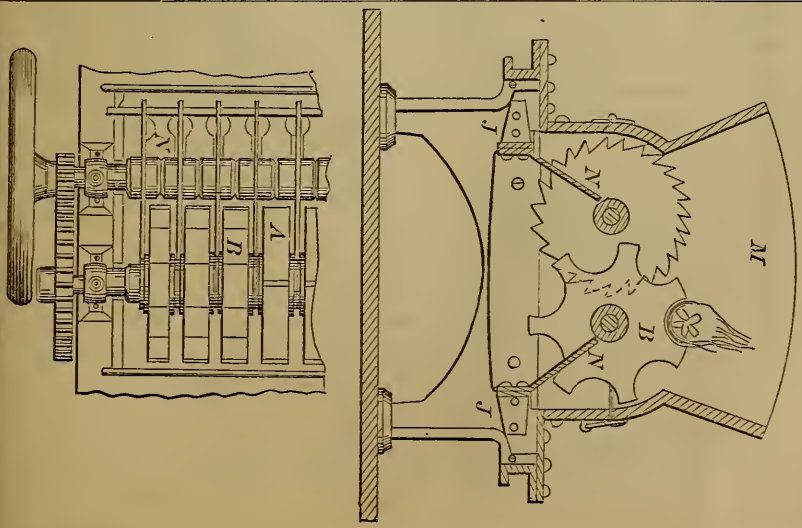
83827—H. N. Brooks—*Water Elevator and Dairy.*



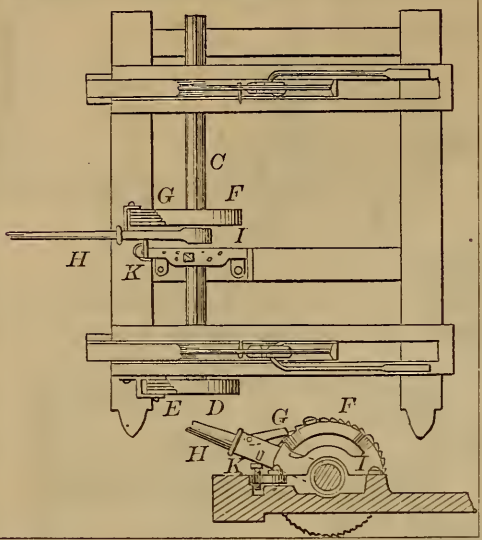
83831—W. T. Clement—*Cutlery.*



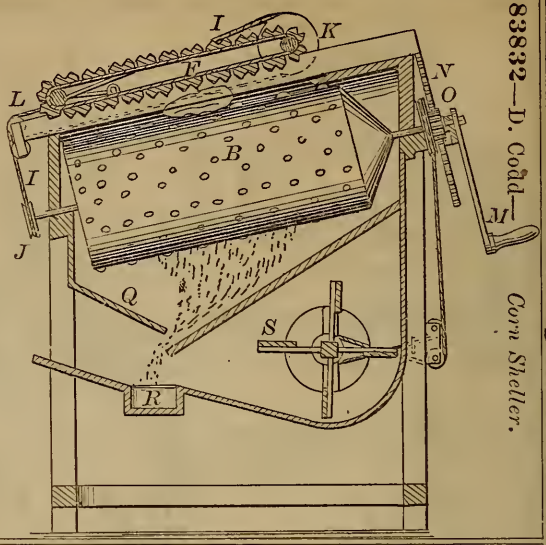
83829—R. I. Burbank—*Vegetable Cutter.*



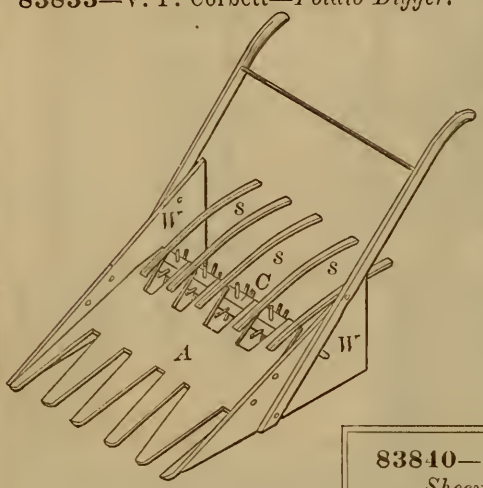
83830—C. R. Bushnell—*Head Block.*



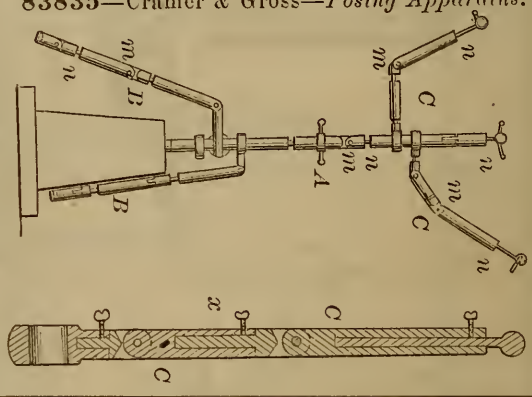
83832—D. Codd—*Corn Sheller.*



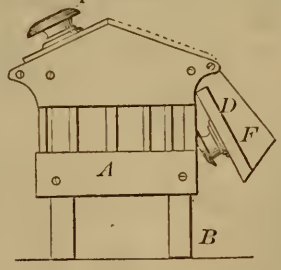
83833—V. P. Corbett—*Potato Digger.*



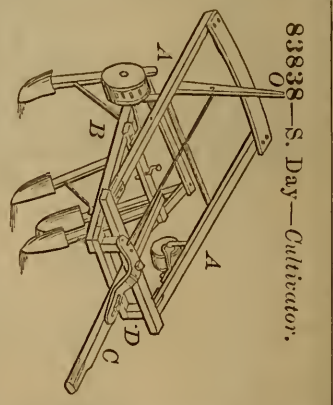
83835—Cramer & Gross—*Posing Apparatus.*



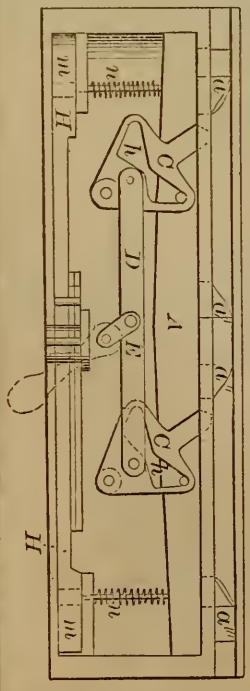
83840—Elliott & Lee—*Sheep Rack.*



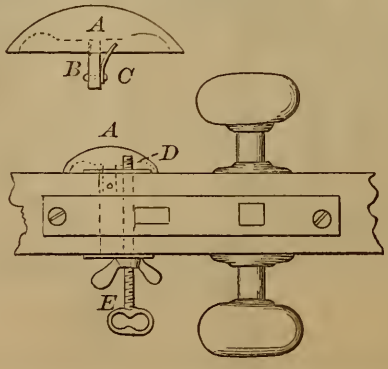
83838—S. Day—*Cultivator.*



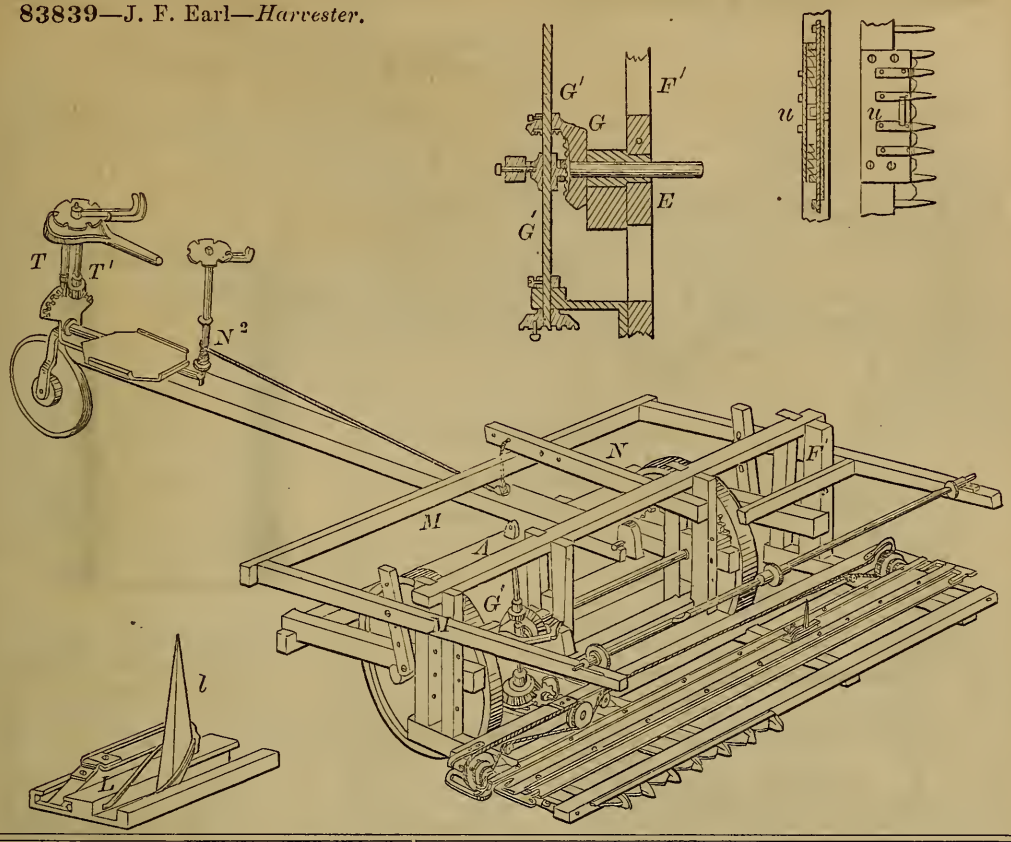
83834—Cotter & Green—*Safety Switch Lock.*



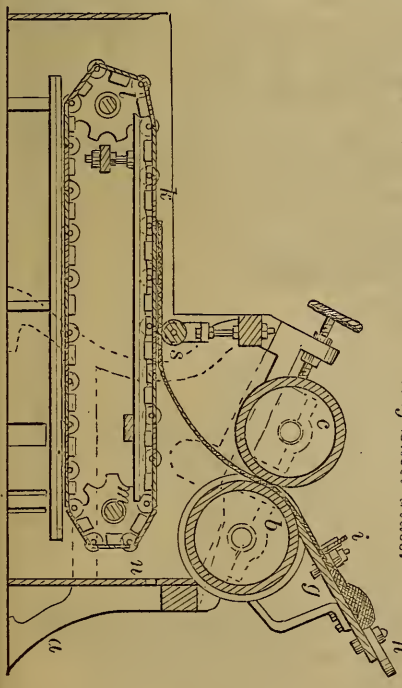
83837—C. B. Davies—*Key Hole Guard.*



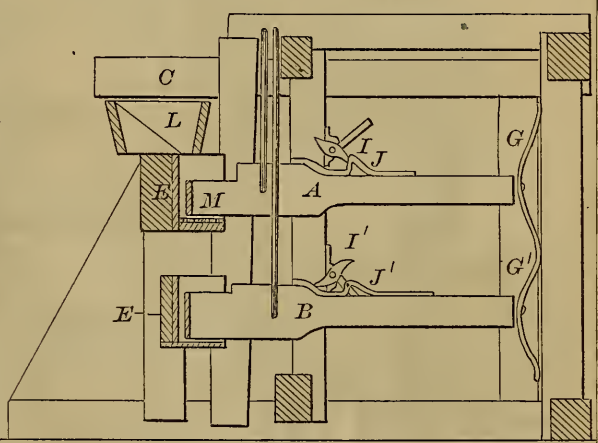
83839—J. F. Earl—*Harvester.*



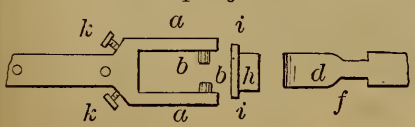
83841—S. S. Ferris—*For Making Sheet Glass.*



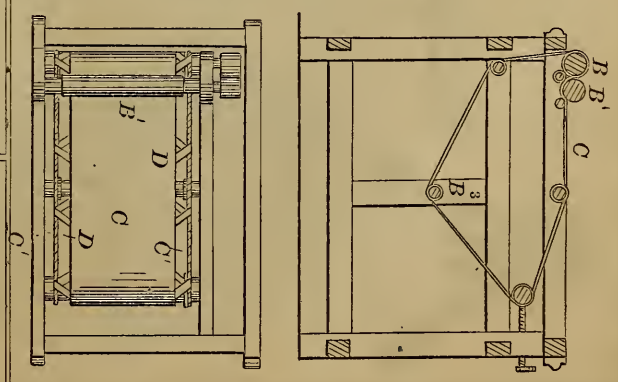
83842—E. Ford—*Quartz Crusher.*



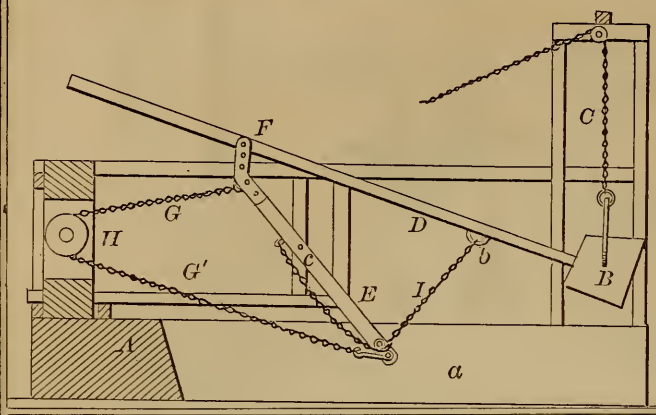
83843—N. N. Gordon—*Thill Coupling.*



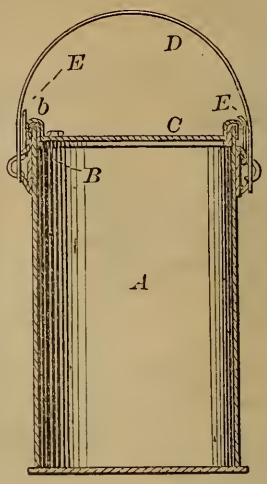
83844—H. B. Goucher—*Cider Mill.*



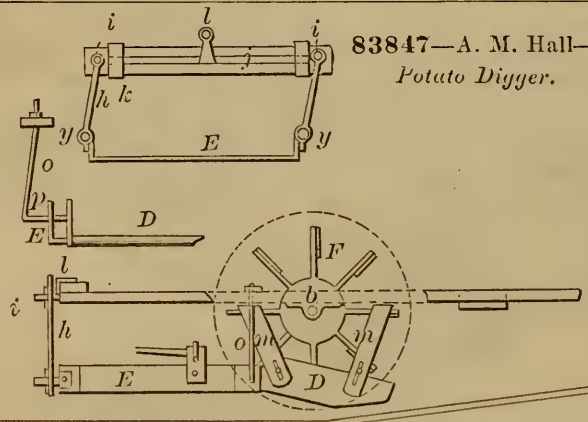
83845—A. J. Gove—*Dredging Machine.*



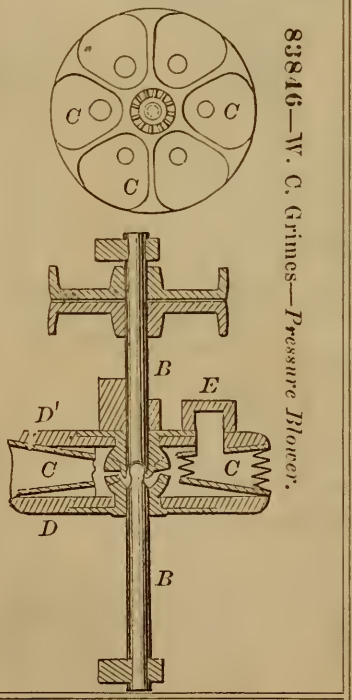
83849—E. B. Hamlin—*Paint Can.*



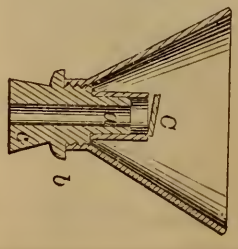
83847—A. M. Hall—*Potato Digger.*



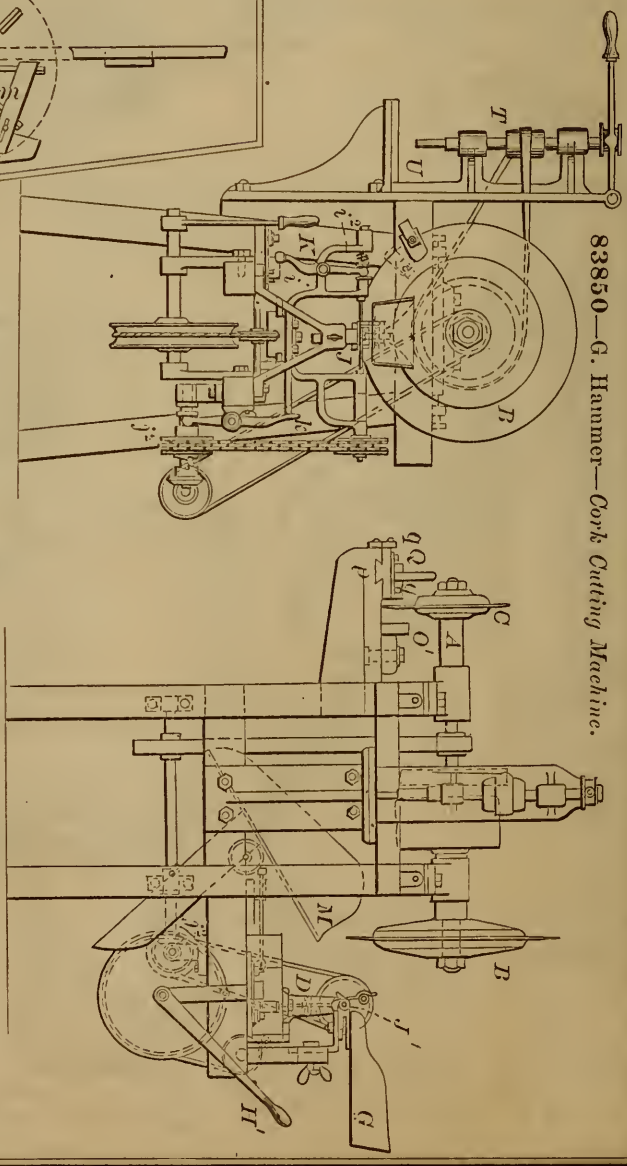
83846—W. C. Grimes—*Pressure Blower.*



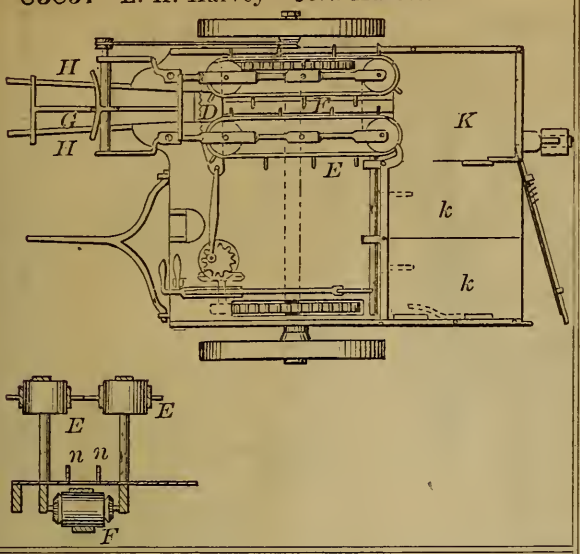
83848—J. R. Hamilton—*Valve.*



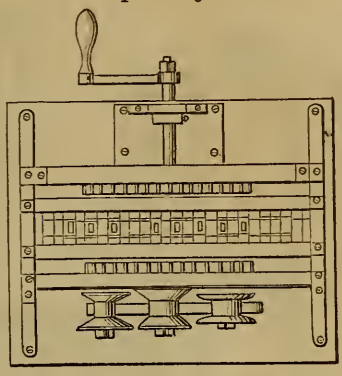
83850—G. Hammer—*Cork Cutting Machine.*

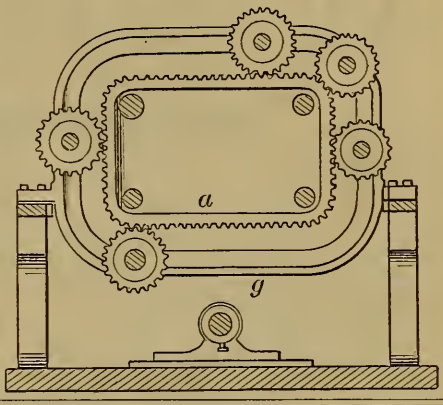


83851—E. K. Harvey—*Corn Harvester.*

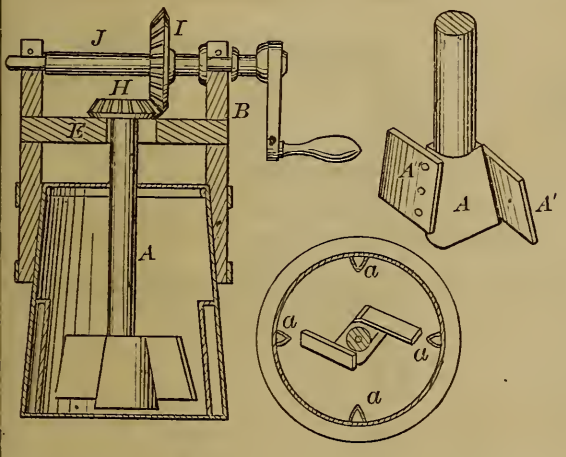


83852—H. Havell—*For Bending Carpet Bag Frames.*

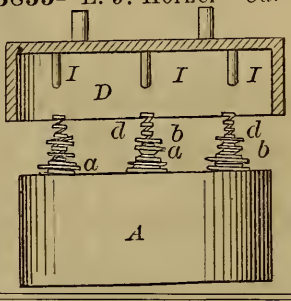




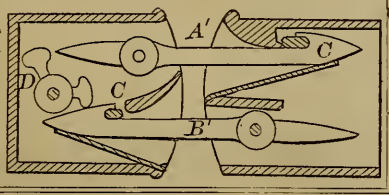
83853—S. Hewit—*Churn.*



83855—E. J. Horner—*Car Spring.*



83857—Jeffery & Snyder—*Car Coupling.*



83856—S. Hunter—*Sawing Machine.*

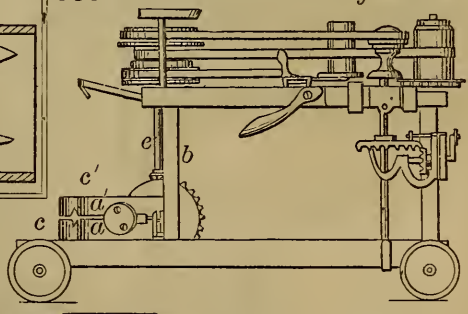
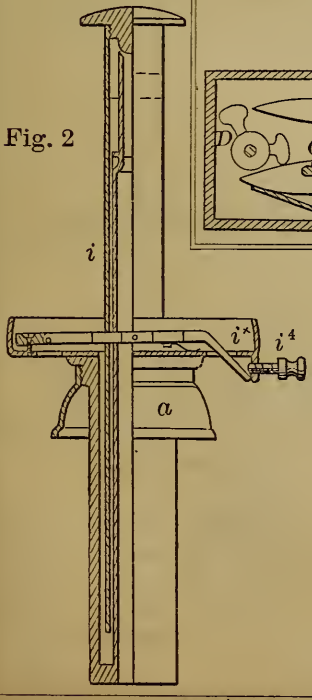
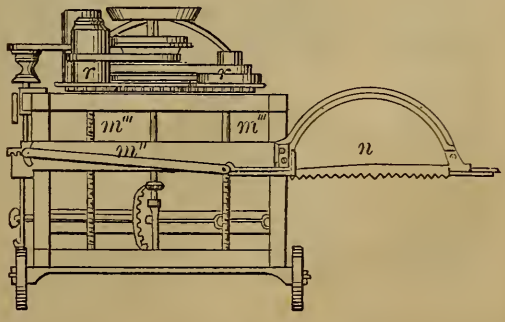


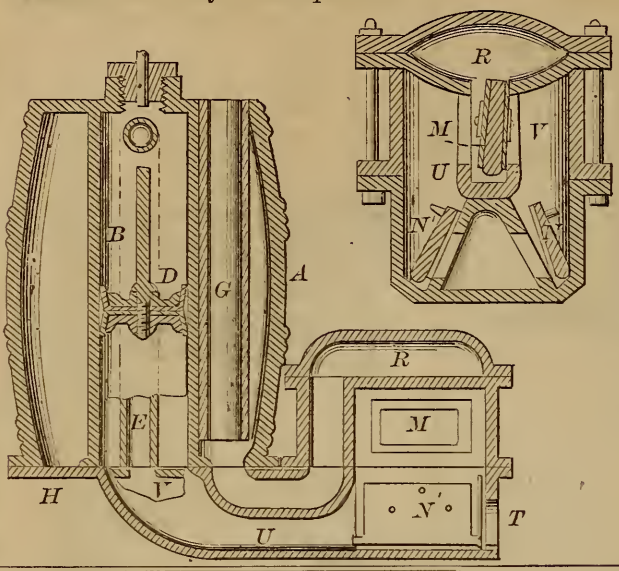
Fig. 2



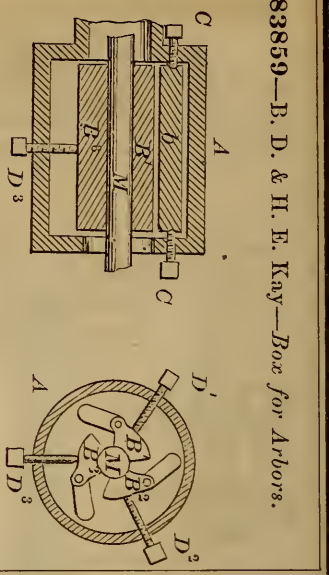
83854—S. Holmes—*Vapor Burner.*

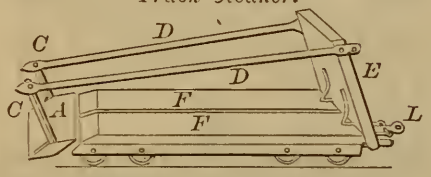


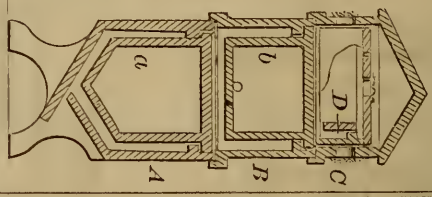
83858—J. O. Joyce—*Pump.*



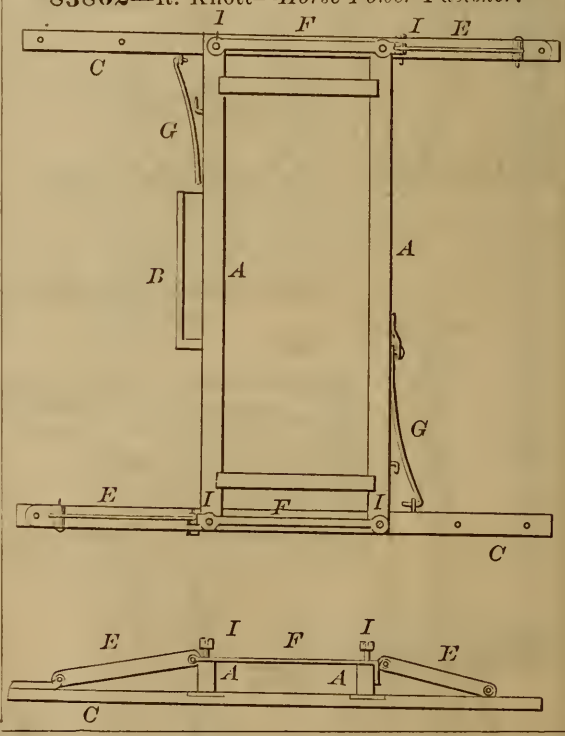
83859—B. D. & H. E. Kay—*Box for Arbors.*



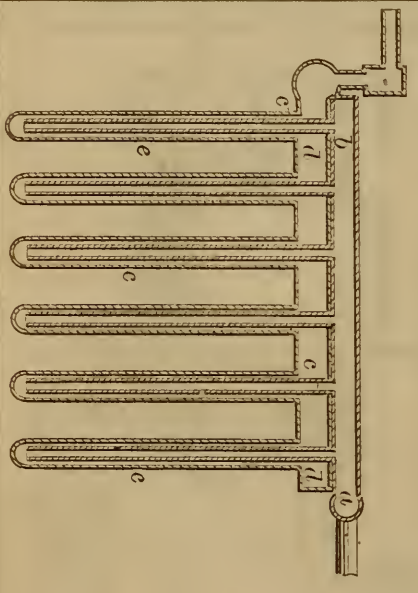
83860—R. A. & T. Kendall—*Railway Track Cleaner.*

83861—I. King—*Beehive.*



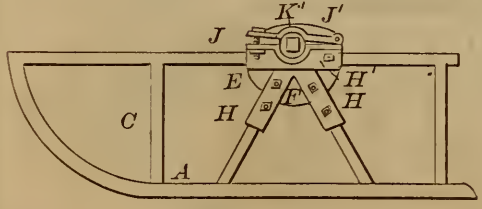
83862—R. Knott—*Horse Power Fastener.*



83863—W. H. Laubach—*Steam Generator.*

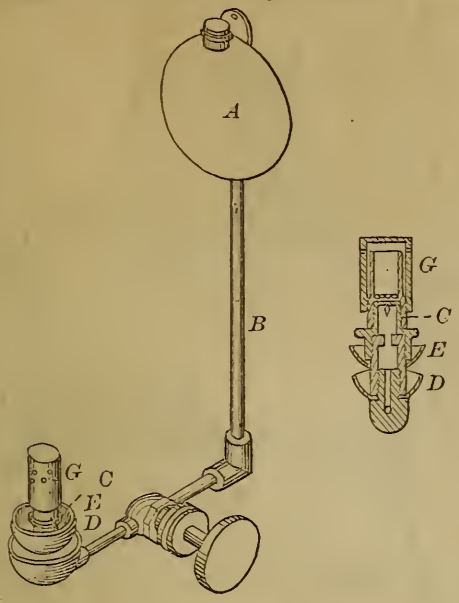


83864—J. Laux—*Sleigh Runner.*

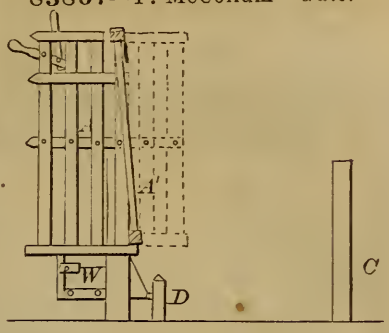


83866—A. E. Lyman—*Hoe.*

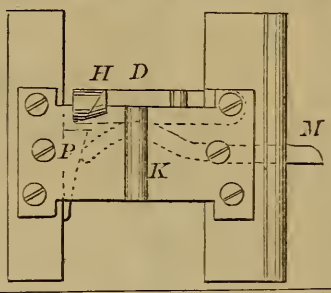
83865—D. H. Lowe—*Vapor Burner.*



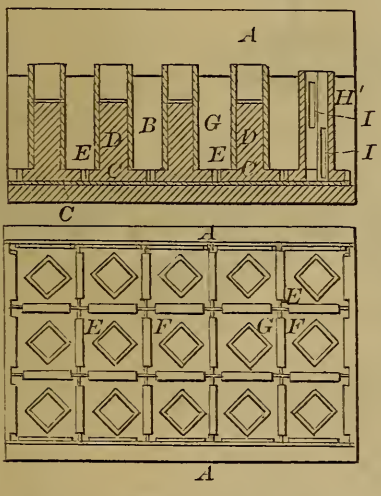
83867—P. McCollum—*Gate.*



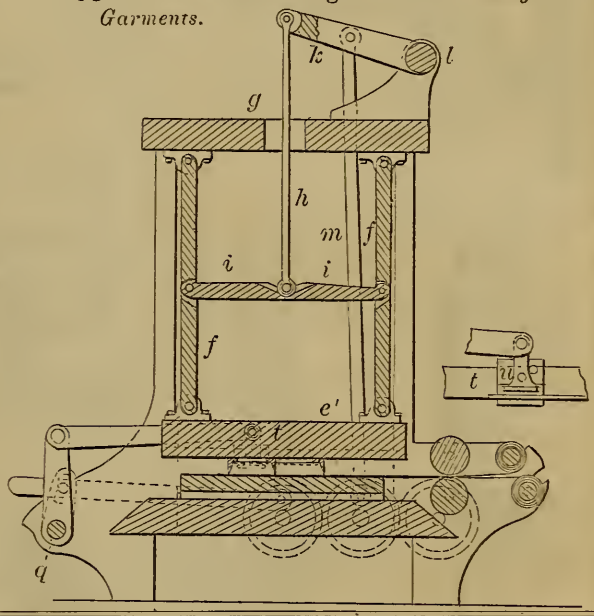
83869—McKee & Jordan—*Hinge.*



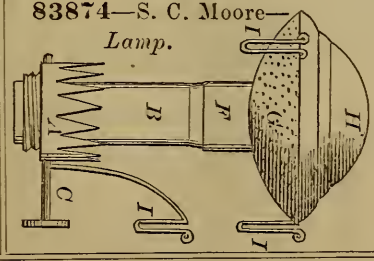
83868—J. T McDougall—*For Collecting Precious Metals.*



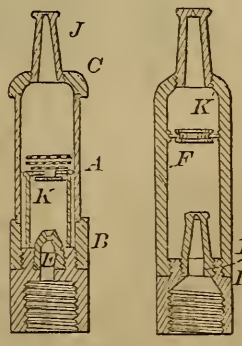
83870—W. A. McLaughlin—*For Cutting out Garments.*



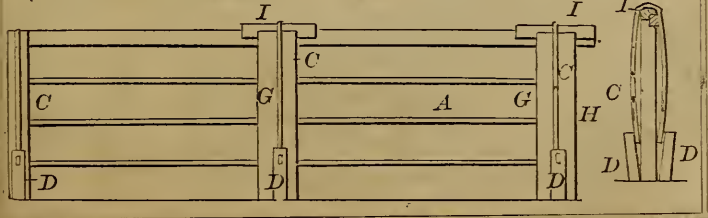
83874—S. C. Moore—*Lamp.*



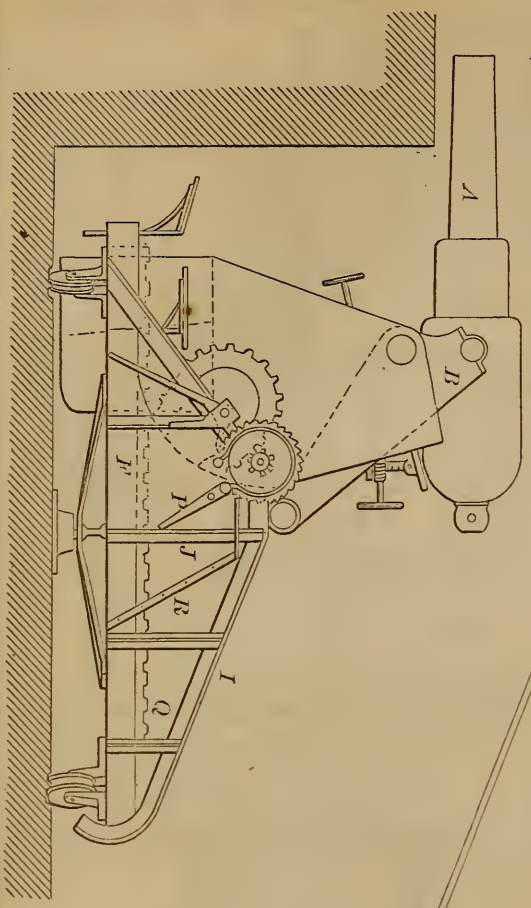
83876—H. B. Myer—*Gas Burner.*



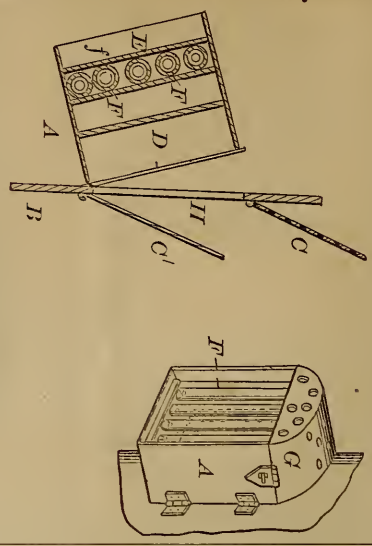
83871—E. G McMillan—*Farm Fence.*



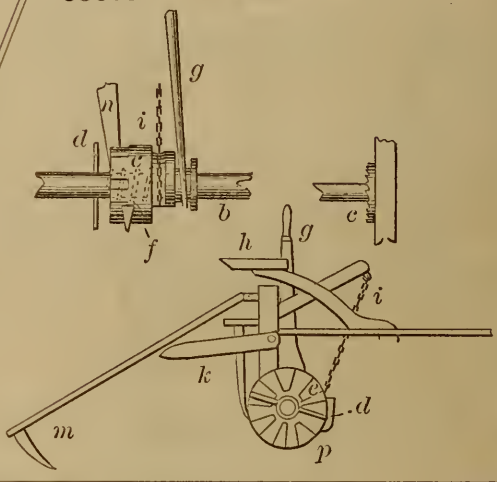
83873—A. Moncrieff—*Gun Carriage.*



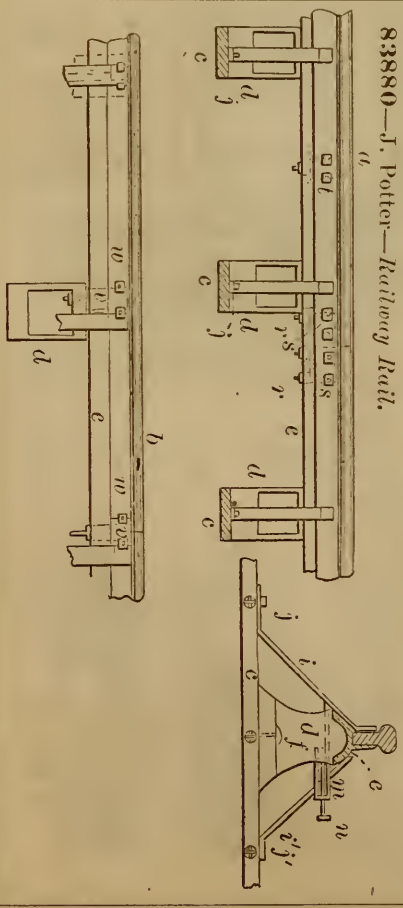
83877—B. Nott—*Illuminator for Stoves.*



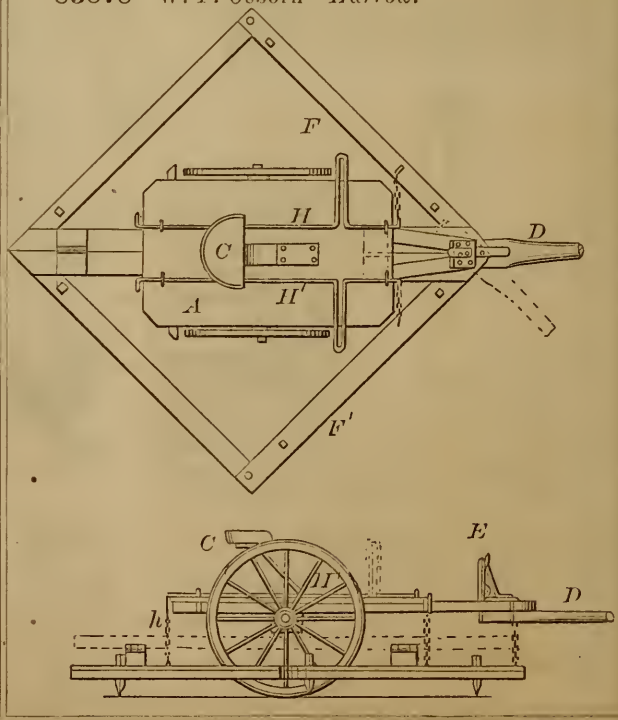
83875—L. H. Morrill—*Horse Rake.*



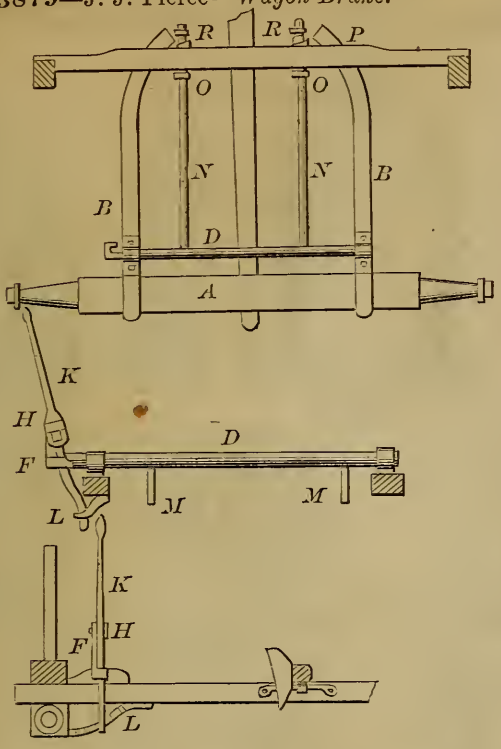
83880—J. Potter—*Railway Rail.*



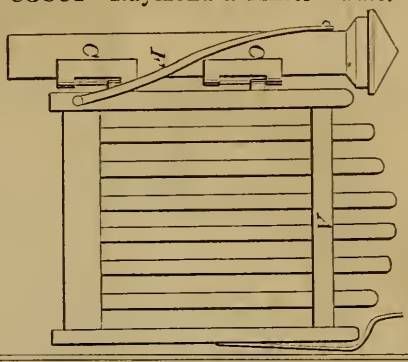
83878—W. F. Osborn—*Harrow.*



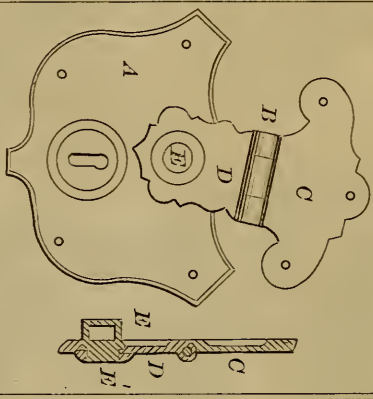
83879—J. J. Pierce—*Wagon Brake.*



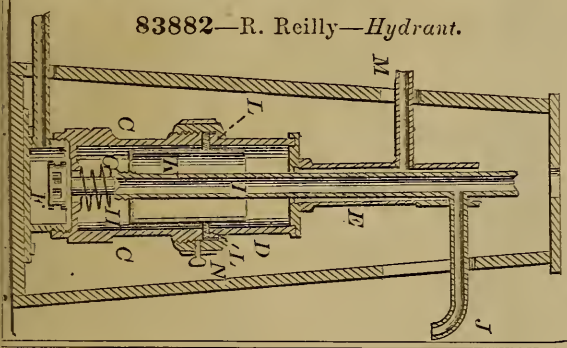
83881—Raymond & Miller—*Gate.*



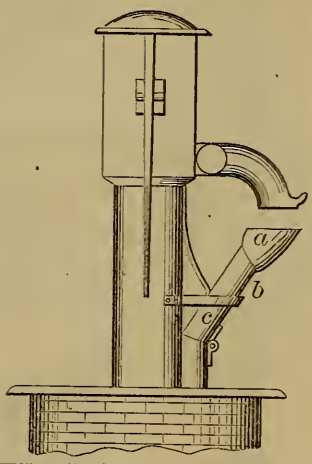
83883—N. P. Ryder—*Hasp.*



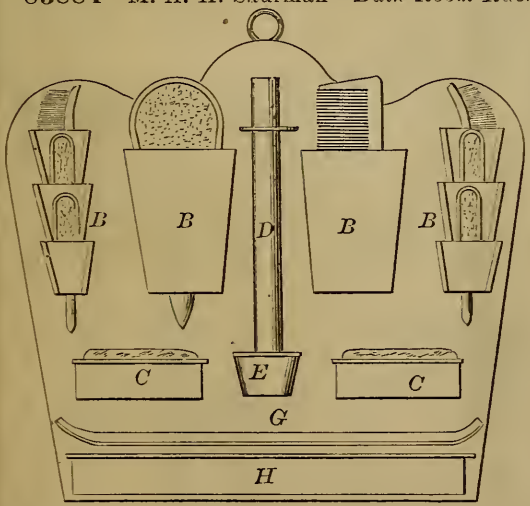
83882—R. Reilly—*Hydrant.*



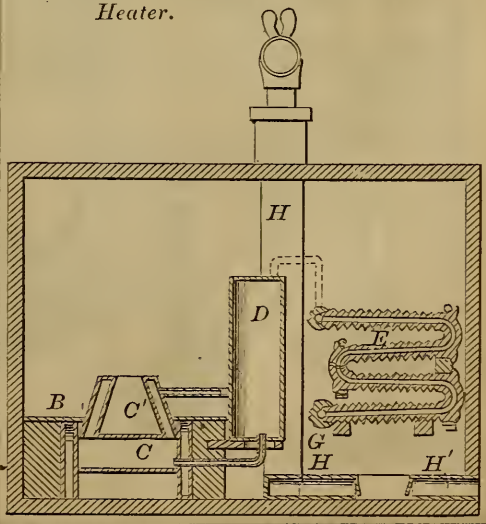
83887—J. B. Stevenson—*Pump.*



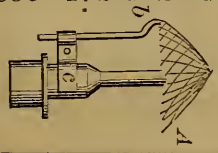
83884—M. A. H. Saurman—*Bath Room Rack.*



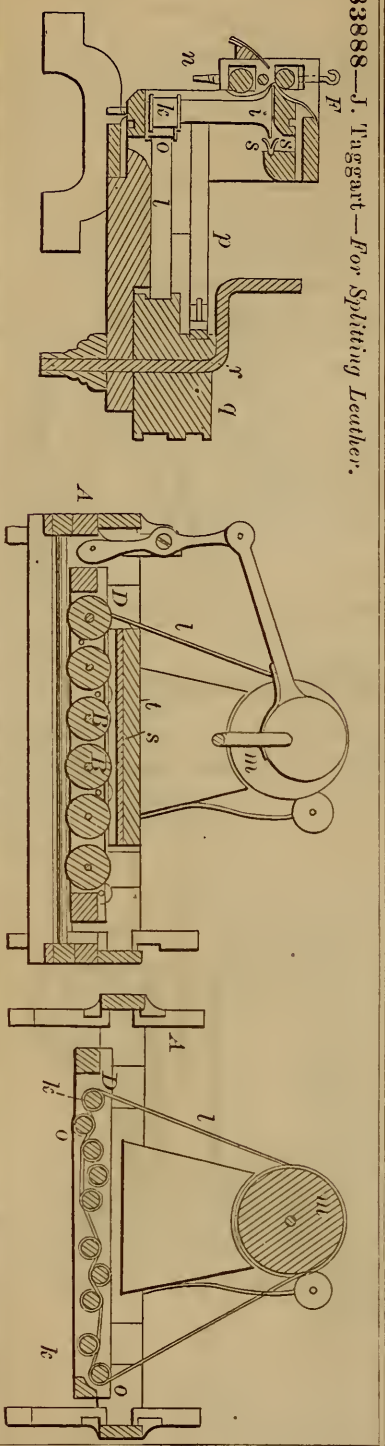
83885—Schultz & Wilson—*Steam Heater.*



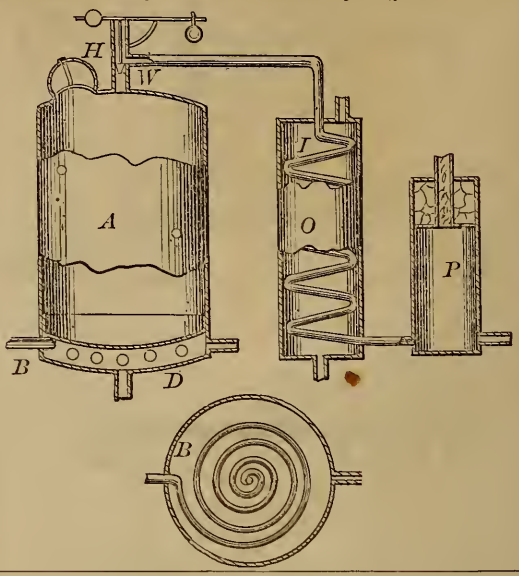
83886—F. Shaller—*Gas Burner Attachment.*



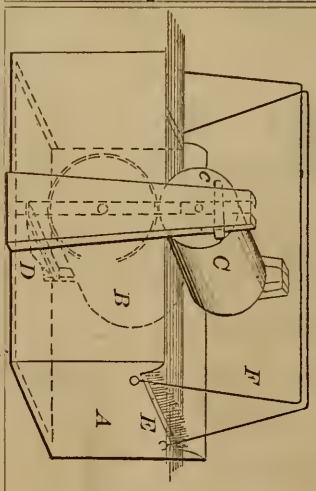
83888—J. Tuggart—*For Splitting Leather.*



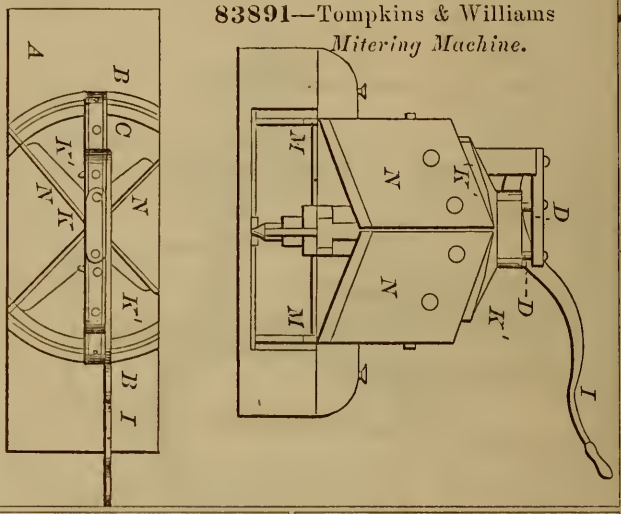
83889—O. H. Taylor—*For Roasting Coffee.*



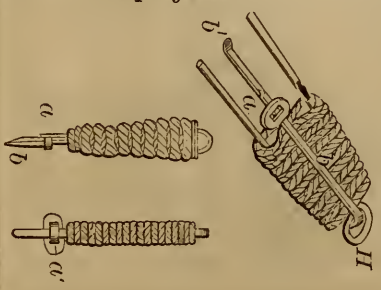
83890—Thomson & Girvin—*For Sizing Yarn.*



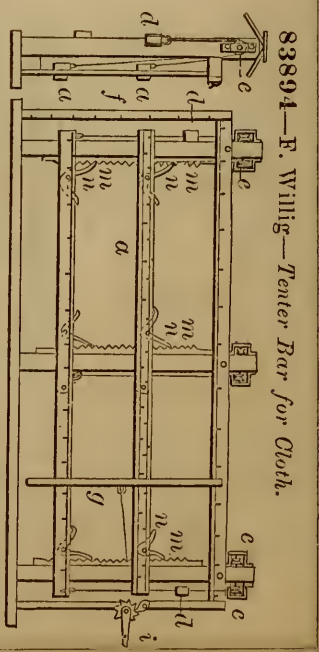
83891—Tompkins & Williams *Mitering Machine.*



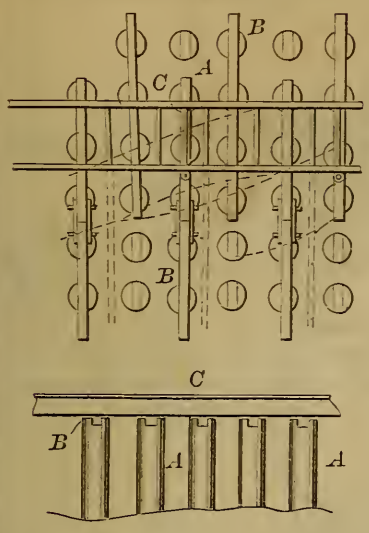
83892—C. A. & A. C. Tyler—*Crimping Pin.*



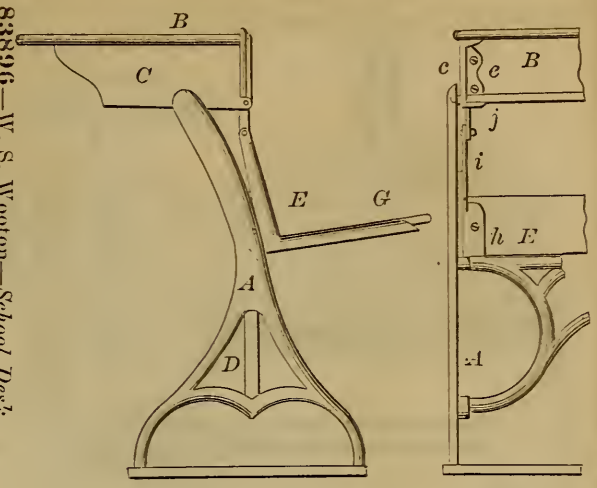
83894—F. Willig—*Tenter Bar for Cloth.*



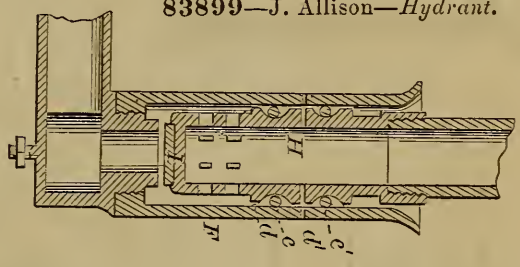
83895—Wood & Chapman—*For Filling Marshes.*



83896—W. S. Wooton—*School Desk.*

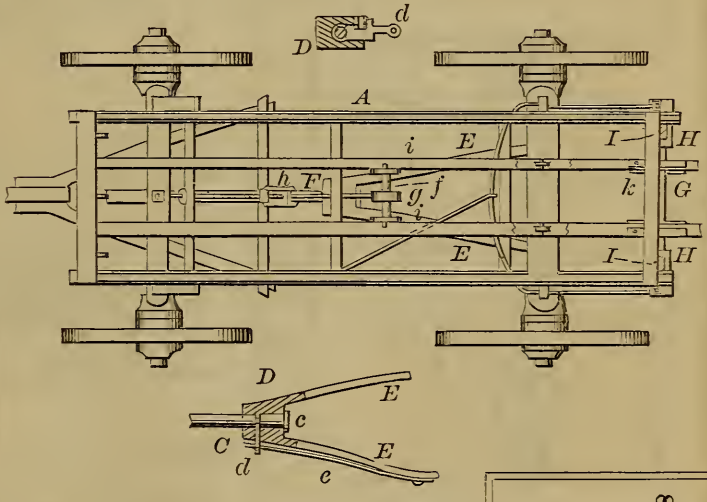


83899—J. Allison—*Hydrant.*

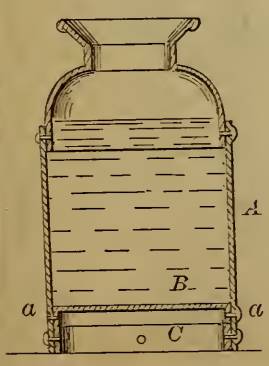


83897—W. Zimmerman—*Hammer.*

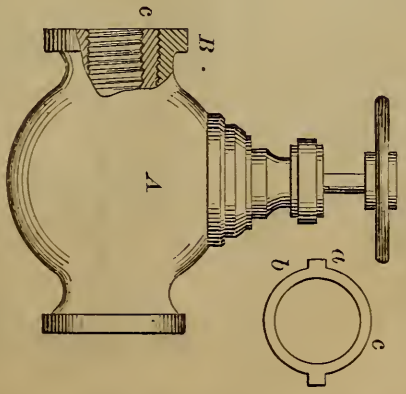
83900—J. F. Applegate—*Wagon.*



83898—T. W. Akin—*Milk Can.*

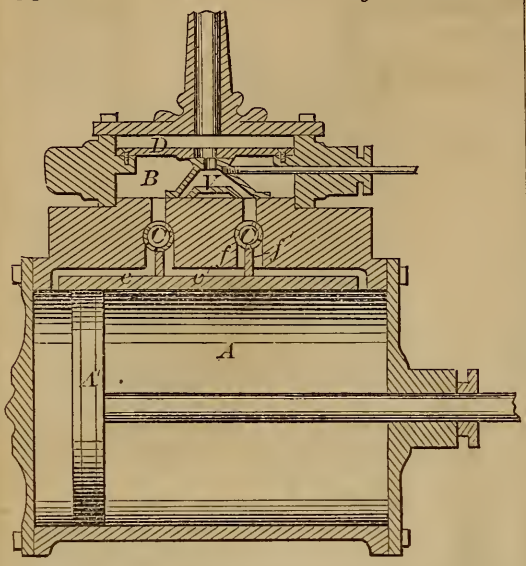


83902—E. H. Asheroft—*Globe Valve.*

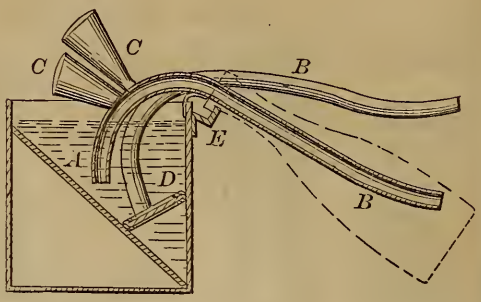


83901—J. S. Armstrong—*Drive Well.*

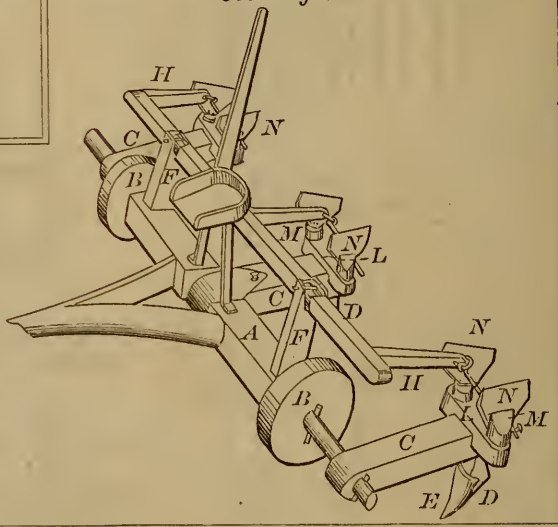
83903—L. Atwood—*Steam Engine Valve.*



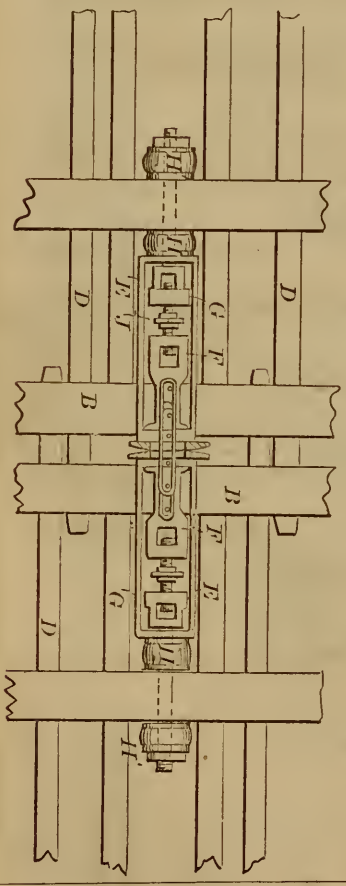
83904—G. B. Bachmann—*Bottle Filling Apparatus.*



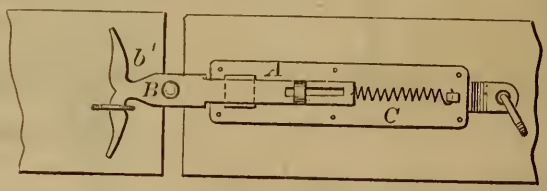
83905—E. Barto—*For Marking and Covering Corn.*



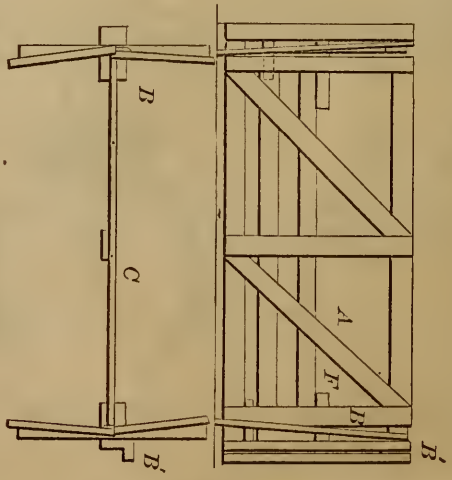
83907—T. B. Blackstone—*Car Coupling.*



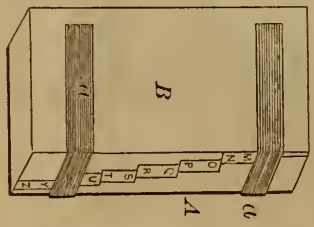
83906—Bisbee & Hearn—*Self-Adjusting Hook.*



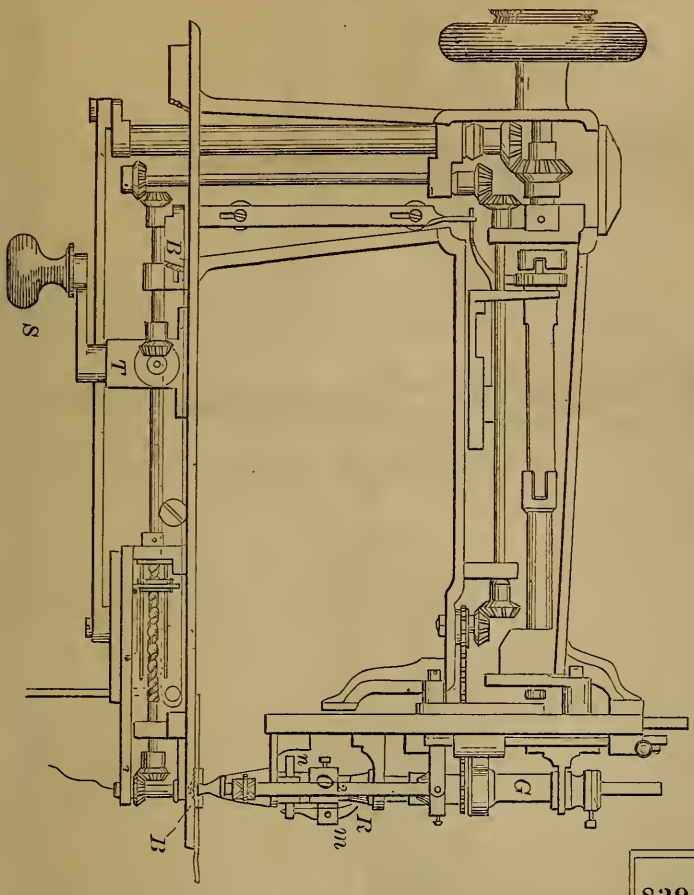
83911—L. W. Bosart—*Fence.*

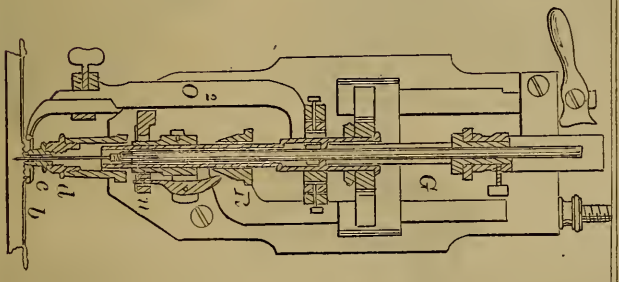


83908—C. W. Bond—*Bill File.*

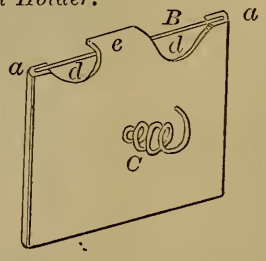


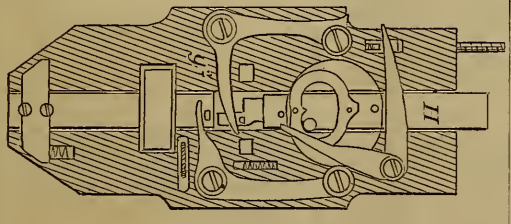
83909—A. Bonnaz—*Sewing Machine for Embroidering.*



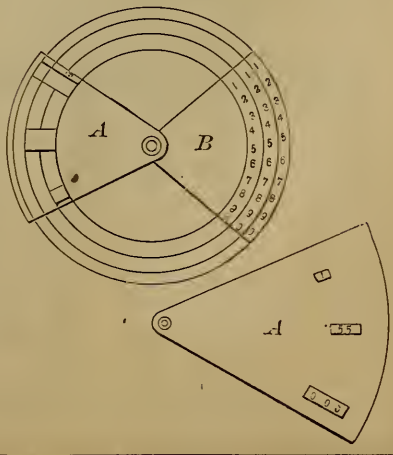


83915—Bramble & Nirdlinger—*Ticket Holder.*

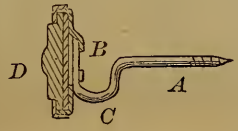




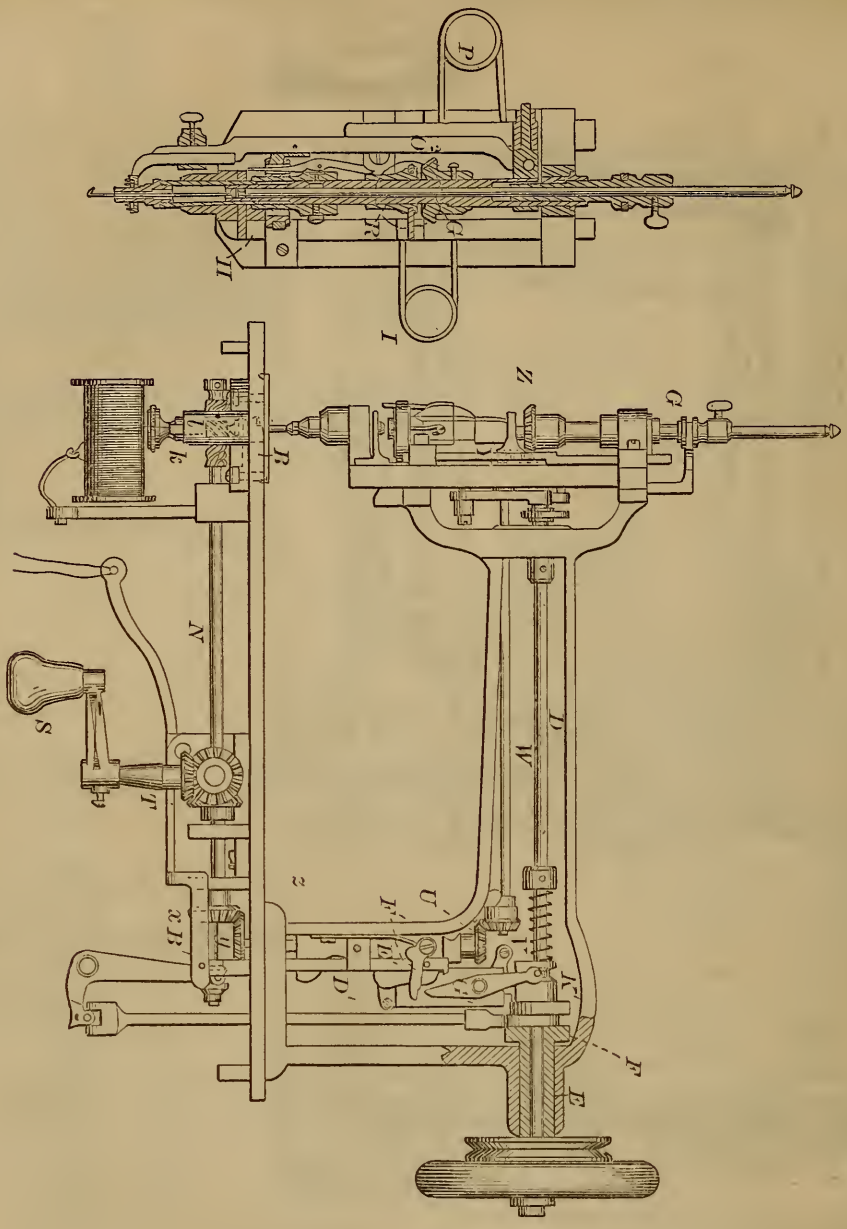
83912—J. H. Bradford—*Stencil Plate.*



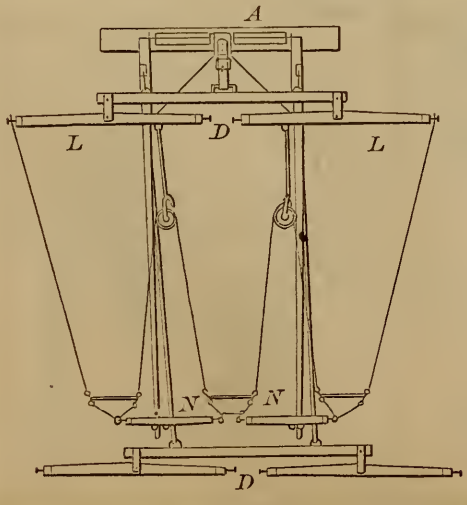
83913—B. H. Bradley—*Picture Nail.*



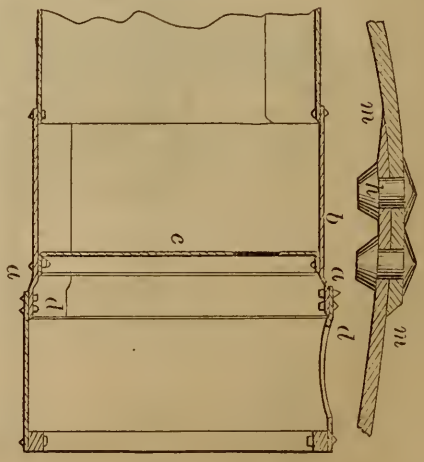
83910—A. Bonnaz—*Sewing Machine for Embroidering.*



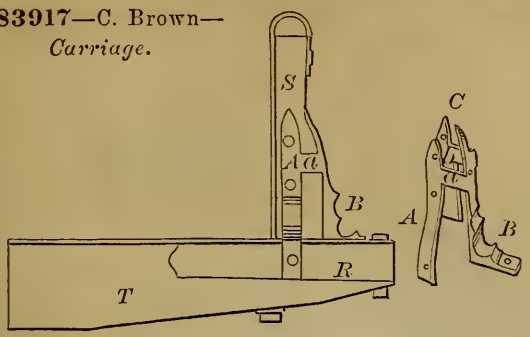
83914—C. C. Bradley—*Draught Equalizer.*



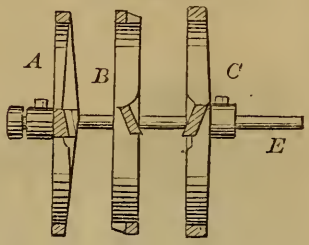
83916—H. G. Brooks—*Steam Generator.*



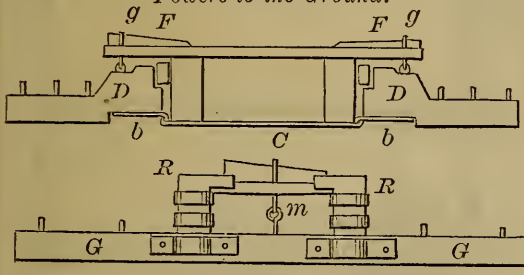
83917—C. Brown—*Carriage.*



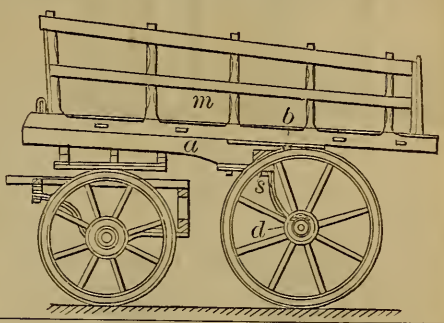
83918—C. D. Brown—*For Dressing Hop Poles.*



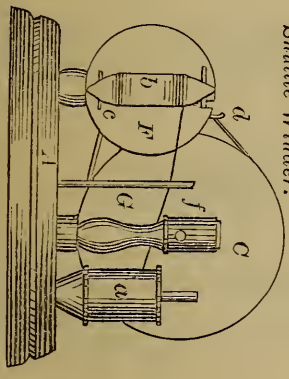
83919—W. Buchanan, Jr.—*Fastening Horse Powers to the Ground.*



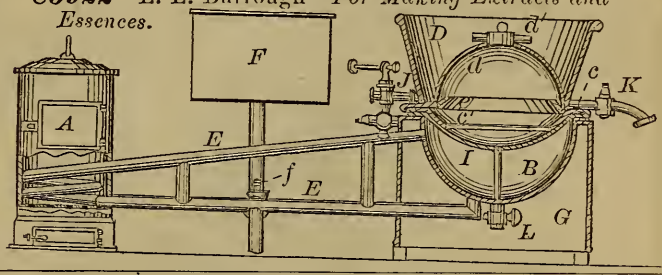
83920—Bullock & Hanigan—*Wagon.*



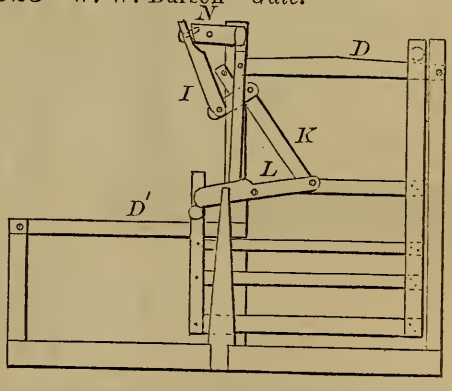
83921—E. S. Burns—*Tatting Shuttle Winder.*

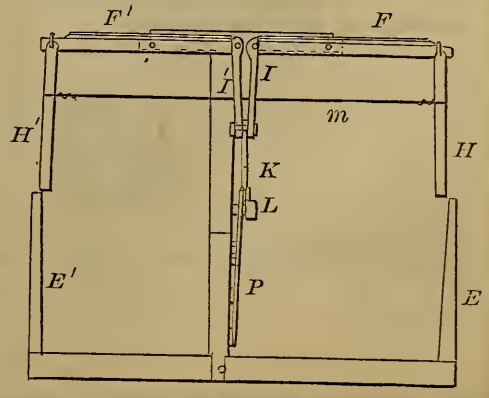


83922—E. E. Burrough—*For Making Extracts and Essences.*

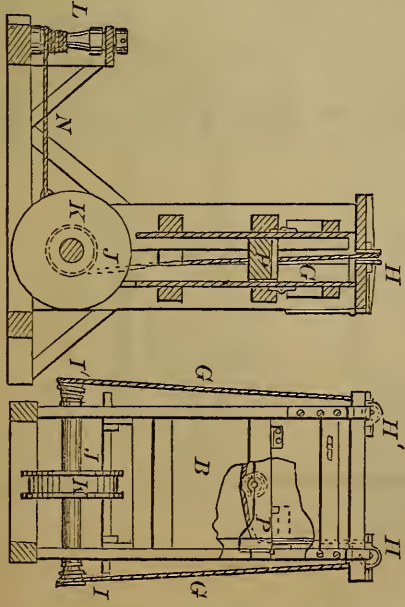


83923—W. W. Burson—*Gate.*





83926—S. Q. Carey—*Hay and Cotton Press*



83924—S. G. Cabell—*Fluting Machine.*

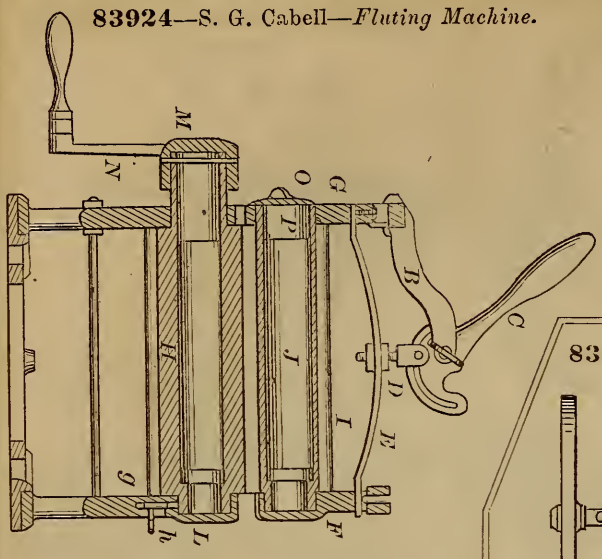


Fig. 4

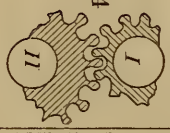
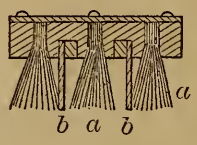
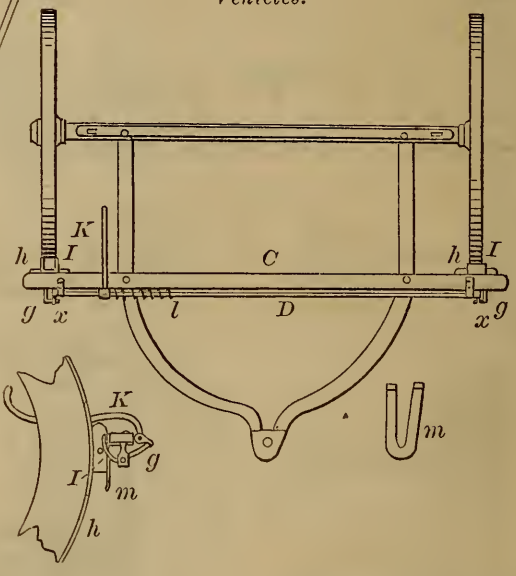


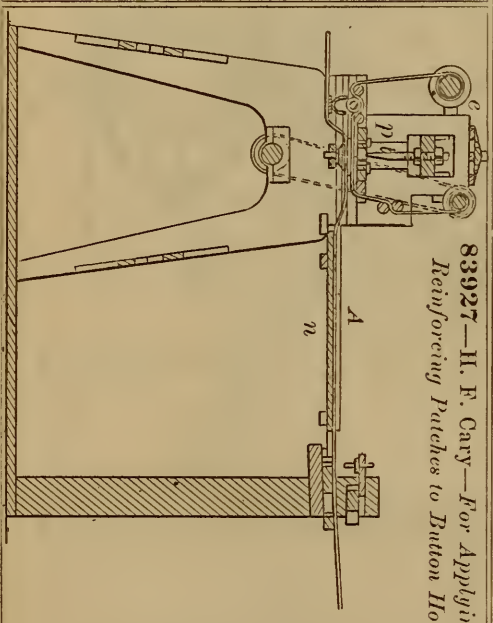
Fig. 5

83932—A. E. Colman—*Brush.*



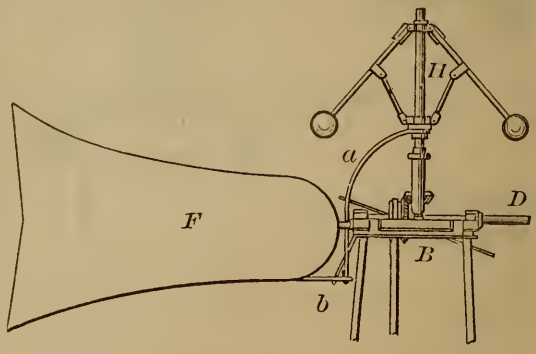
83929—E. M. Chumard—*Brake for Vehicles.*



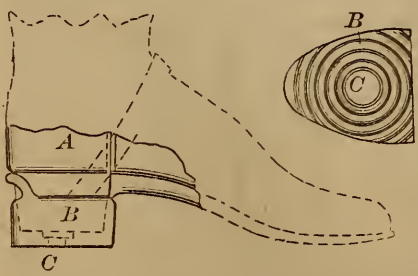


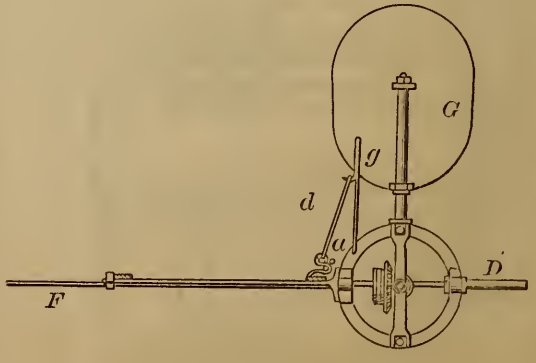
83927—H. F. Cary—*For Applying Reinforcing Patches to Button Holes.*

83928—C. P. Chapman—*Wind Wheel.*

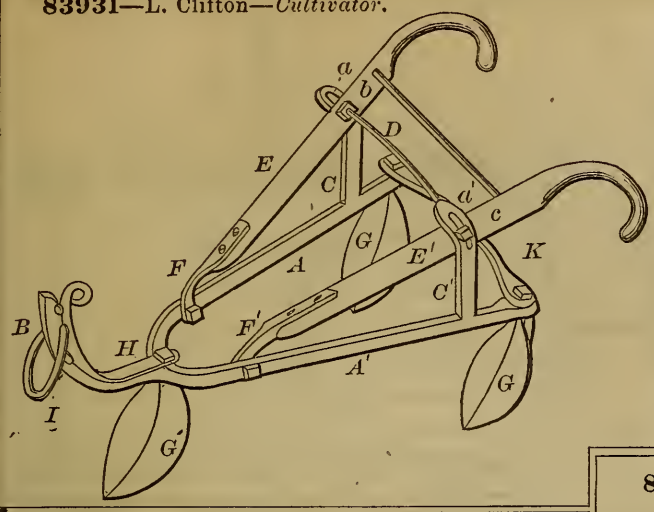


83930—G. H. Clemens—*Calk.*

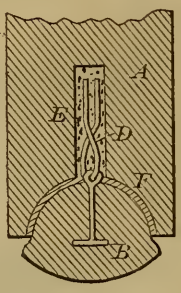




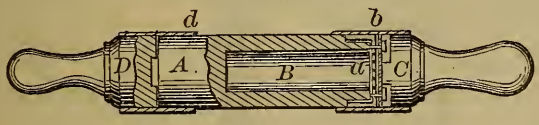
83931—L. Clifton—*Cultivator.*



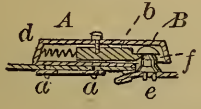
83933—Coogan & Miller—*Tip for Chair Legs.*



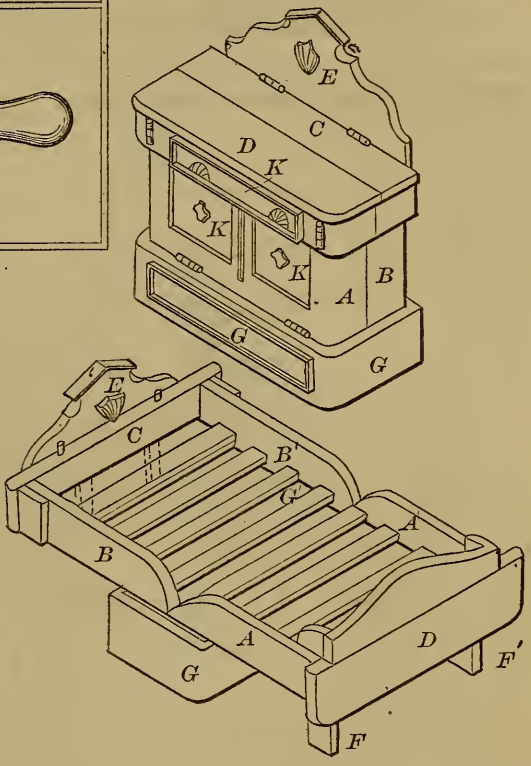
83934—W. Cook—*Rolling Pin.*



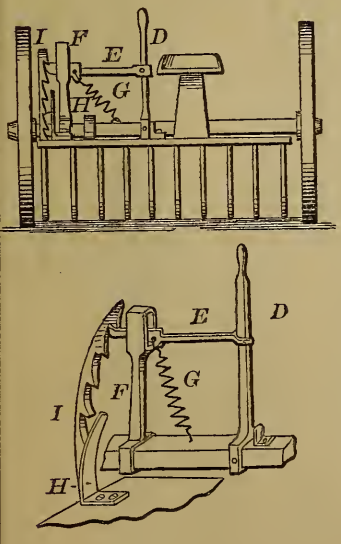
83935—P. Courvoisier—*Glove Fastener.*



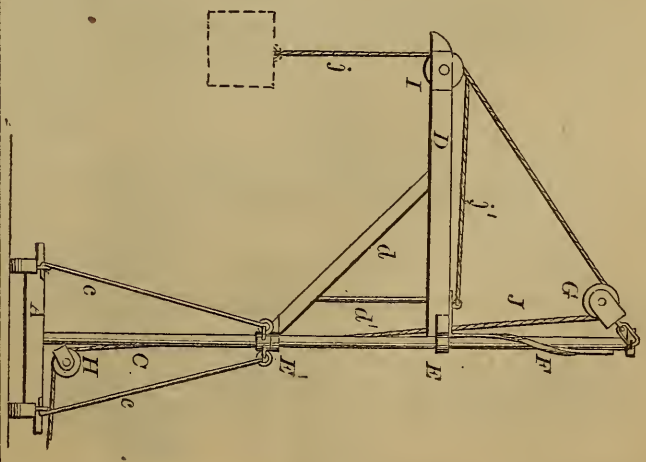
83936—M. Crosby—*Bedstead.*



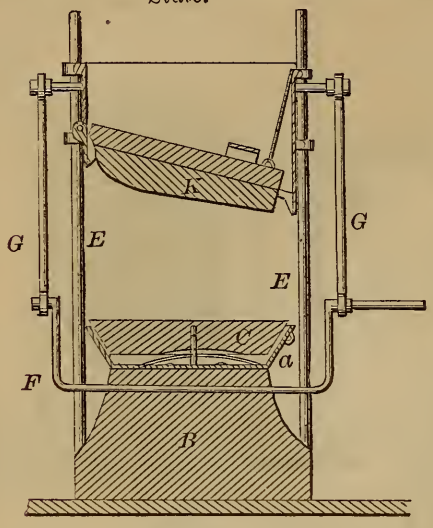
83937—Denney & Chalfant—*Horse Rake.*



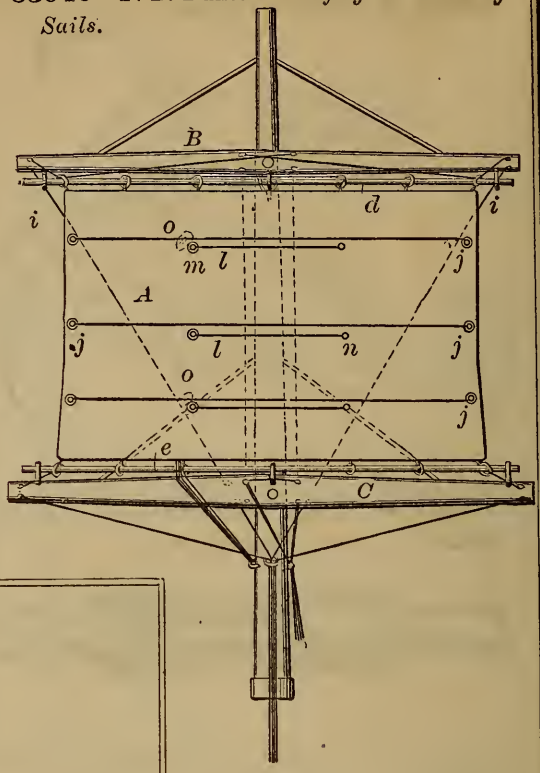
83938—Drake & Hutson—*Derrick.*



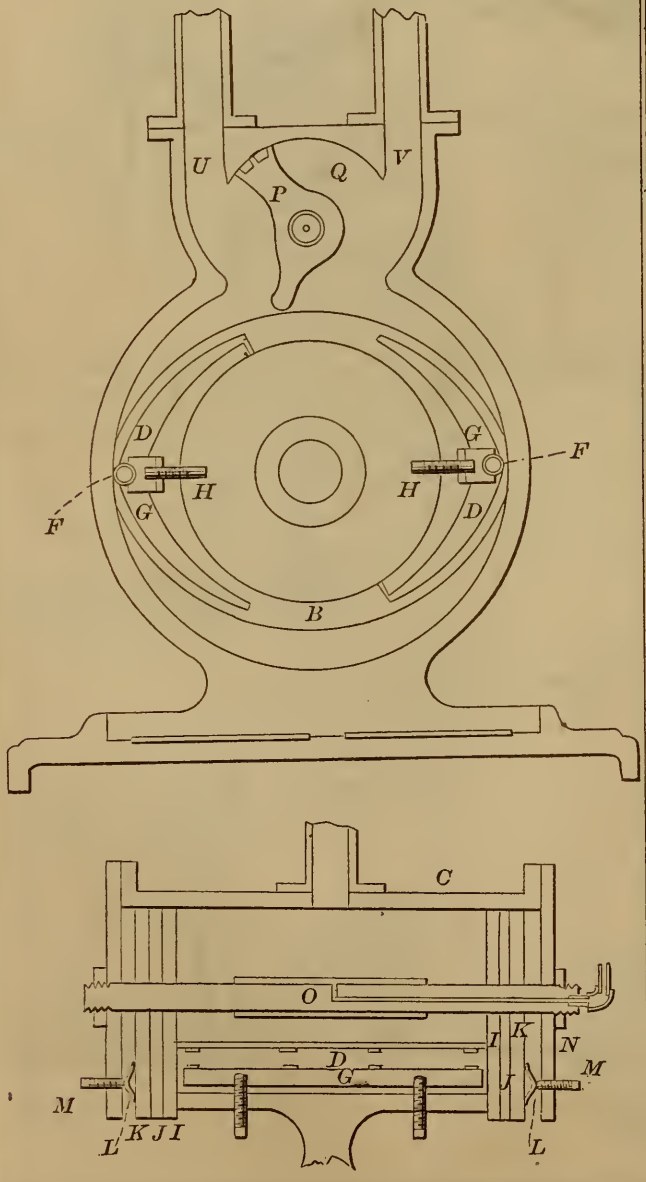
83939—T. R. Drummond—*For Cutting Slate.*



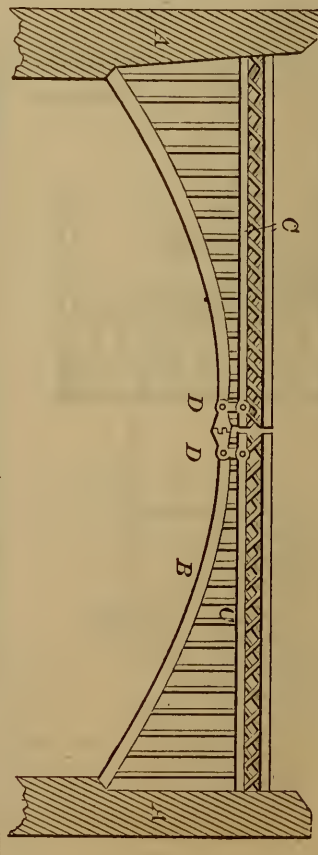
83940—F. B. Dunton—*Reefing and Furling Sails.*



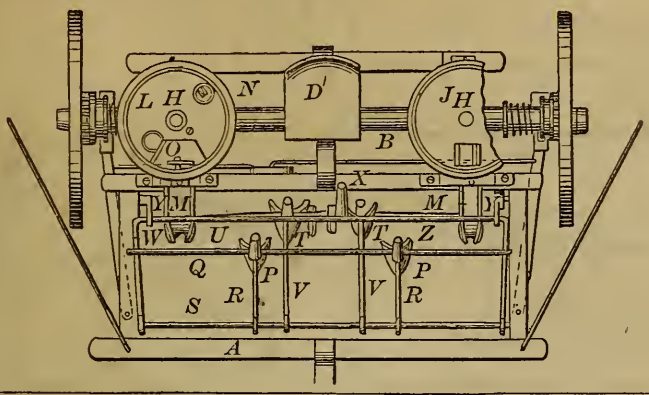
83941—A. Duvall—*Rotary Steam Engine.*

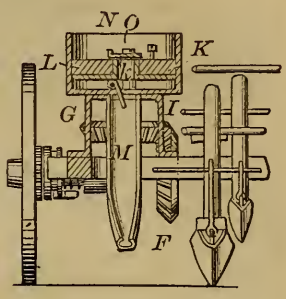


83942—J. B. Eads—*Bridge.*

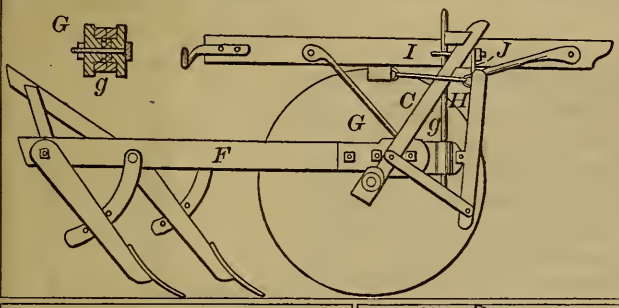


83943—A. Edmister—*Corn Planter and Cultivator.*

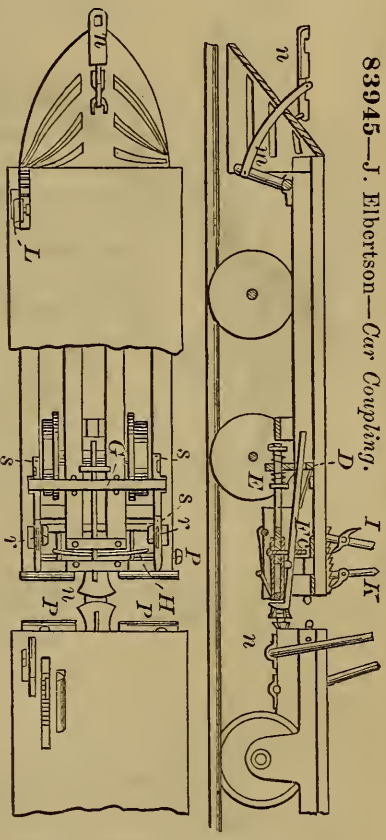




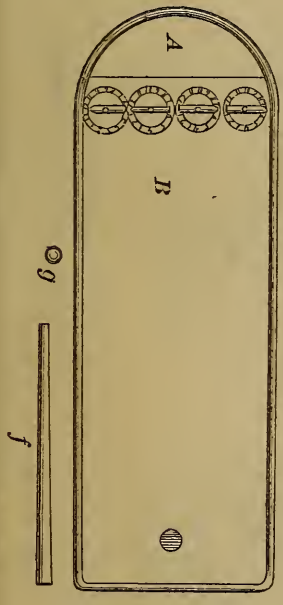
83944—W. H. Edwards—*Cultivator.*

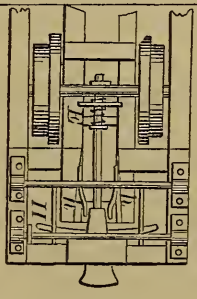


83945—J. Elbertson—*Car Coupling.*

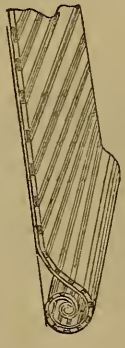


83946—S. A. Emery—*Arithmetical Game.*

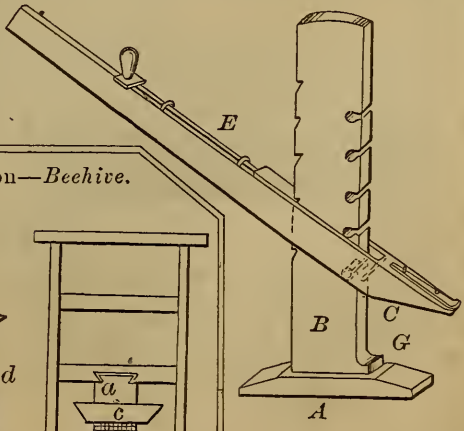




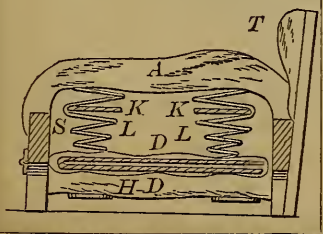
83948—M. Flurscheim—*Fabric for Floor Covering.*



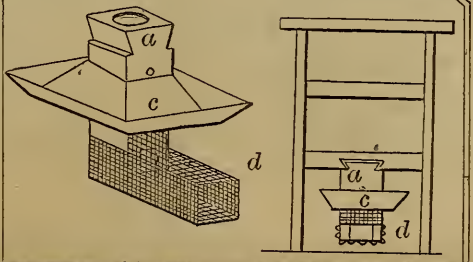
83947—D. Fasig—*Lifting Jack and Cant Hook.*



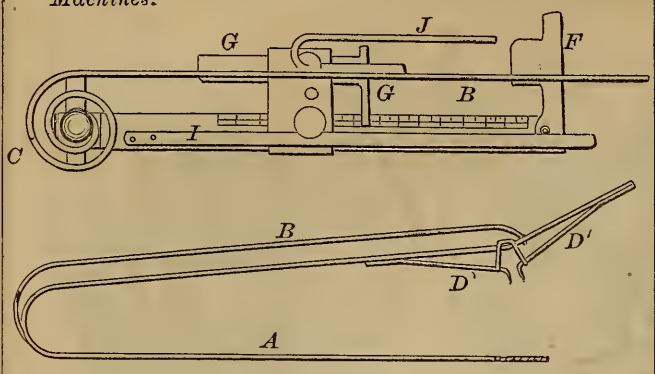
83949—D. Forbes—*Lounge.*



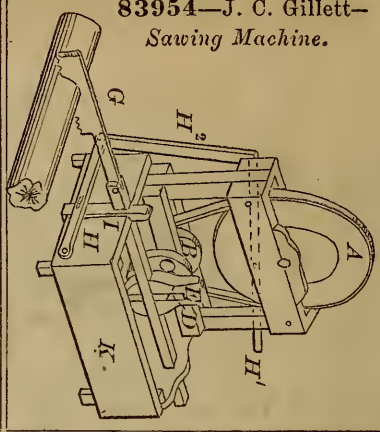
3952—J. C. Gaston—*Beehive.*



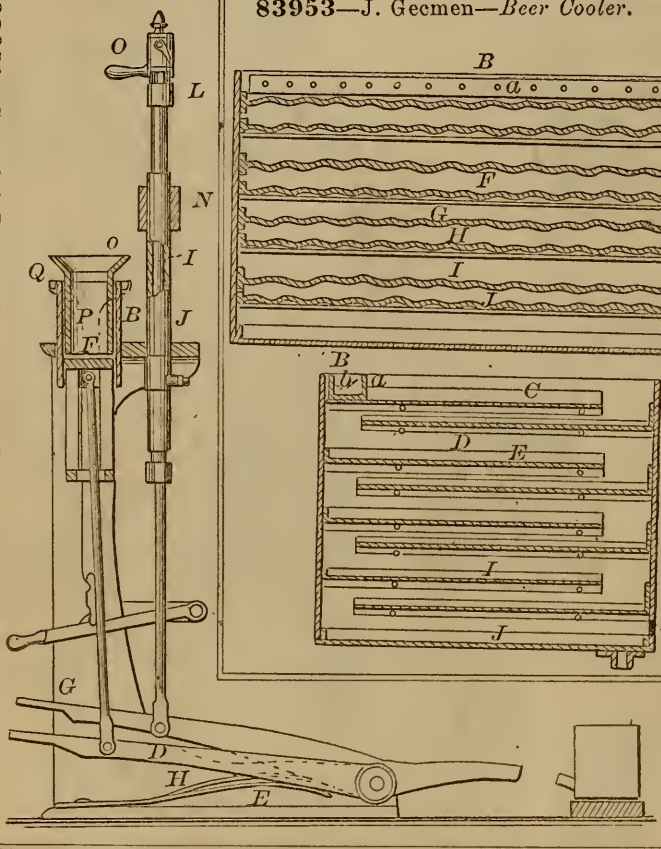
83950—H. W. Fuller—*Tuck Creaser for Sewing Machines.*



83954—J. C. Gillett—*Sawing Machine.*

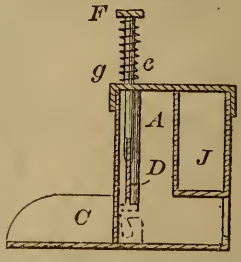


83951—Garsed & Denn—*For Packing Tea and Coffee.*



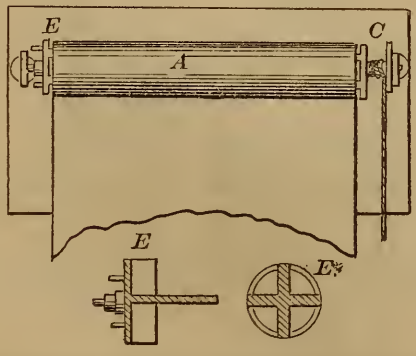
83953—J. Gecmen—*Beer Cooler.*

83955—Gilman & Smith—*Tobacco Cutter.*

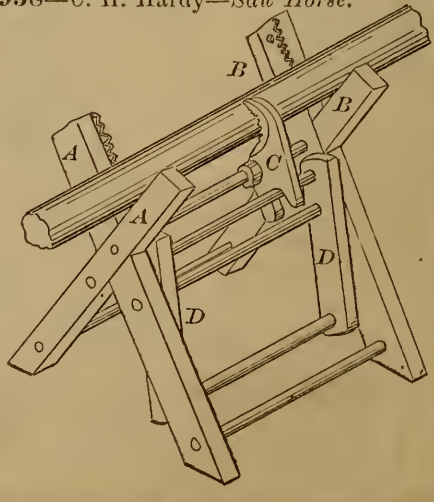


83956—H. H. Gridley—*Swage for Saws.*

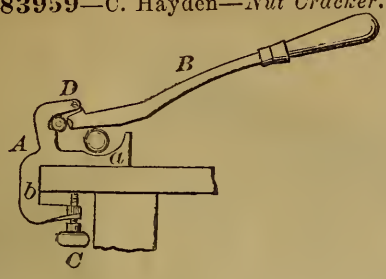
83957—B. Handforth—*Curtain Fixture.*



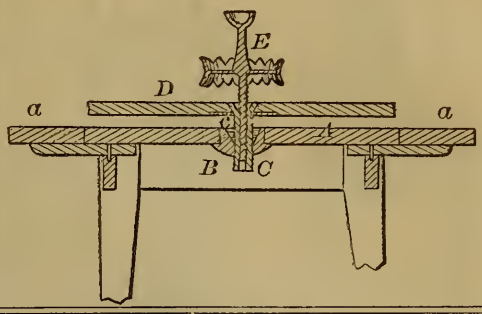
83958—C. H. Hardy—*Saw Horse.*



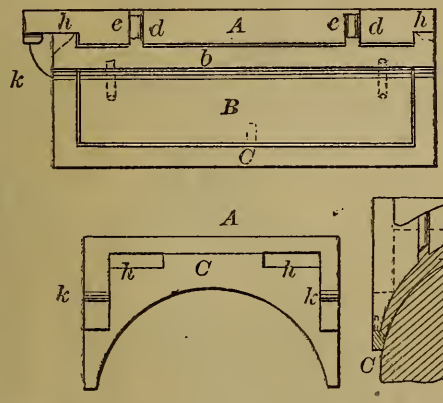
83959—C. Hayden—*Nut Cracker.*



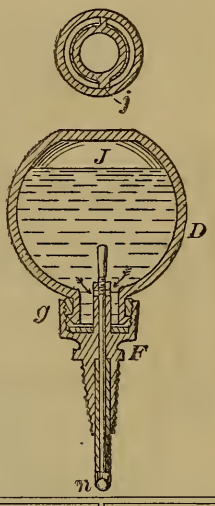
83960—J. S. Heaton—*Revolving Table.*



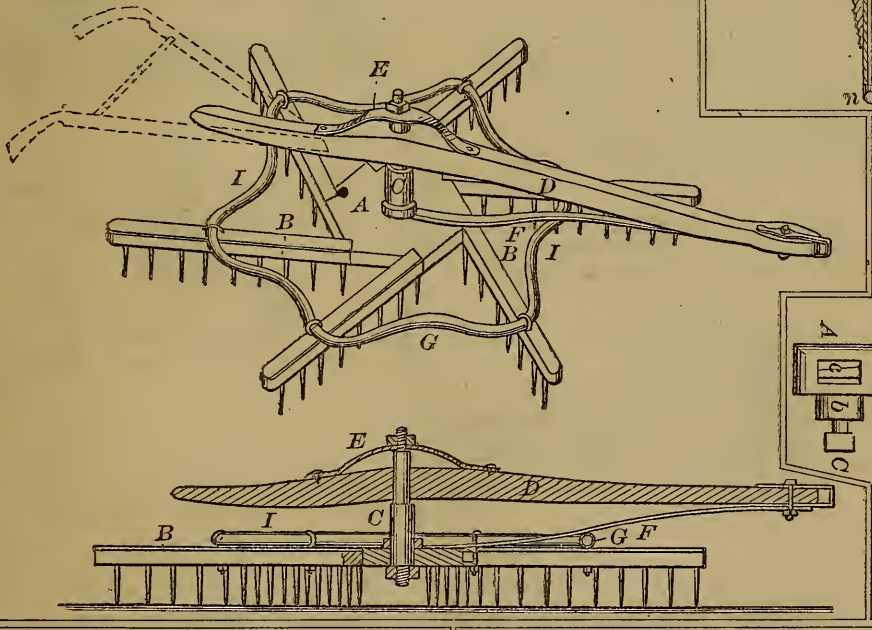
83961—G. H. Henfield—*Journal Box.*



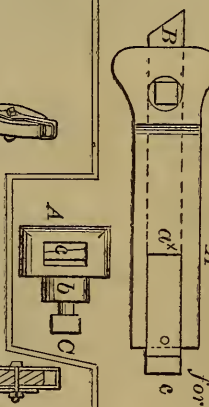
83965—T. Holland—*Lubricator.*



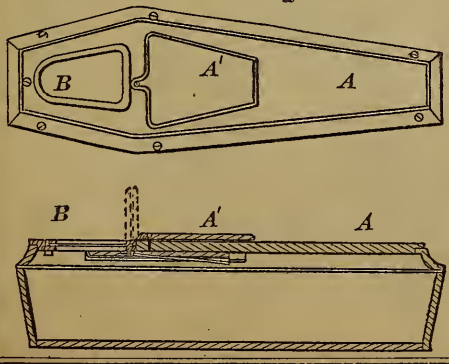
83962—Hickman & Devoe—*Harrow.*



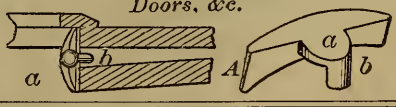
83963—Hickok & Reisinger—*Tool Holder for Lathes.*



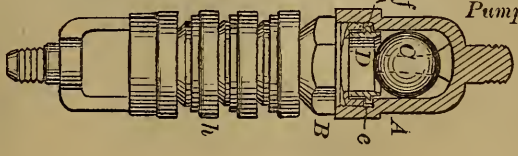
83964—F. A. Hill—*Coffin.*



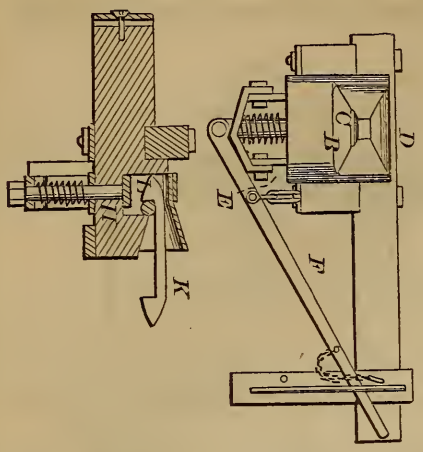
83967—L. T. Howell—*Retaining Device for Doors, &c.*



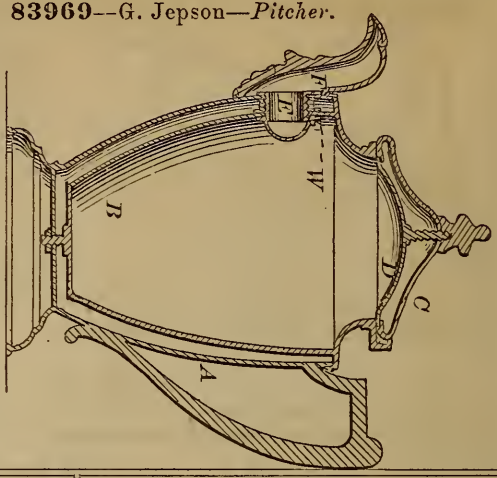
83968—C. Jarecki—*Piston for Deep Well Pumps.*



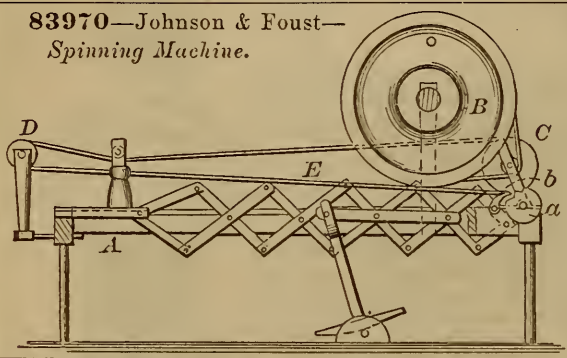
83966—D. D. Howe—*Car Coupling.*



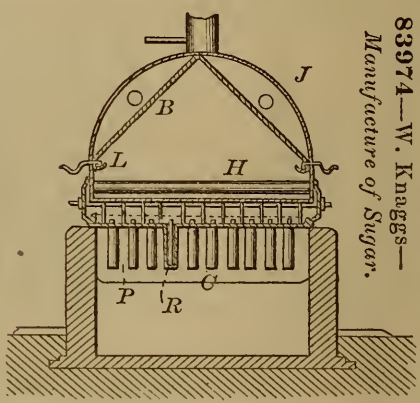
83969—G. Jepson—*Pitcher.*



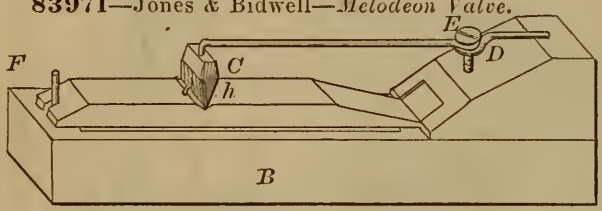
83970—Johnson & Foust—*Spinning Machine.*



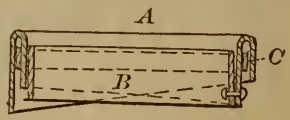
83974—W. Knaggs—*Manufacture of Sugar.*



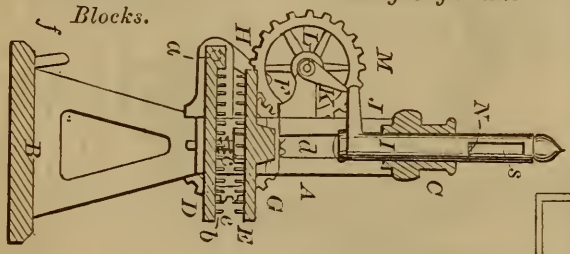
83971—Jones & Bidwell—*Melodeon Valve.*

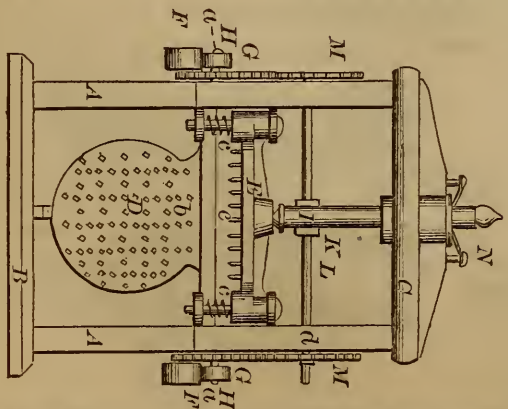


83973—S. Kaufman—*Collar Stay.*

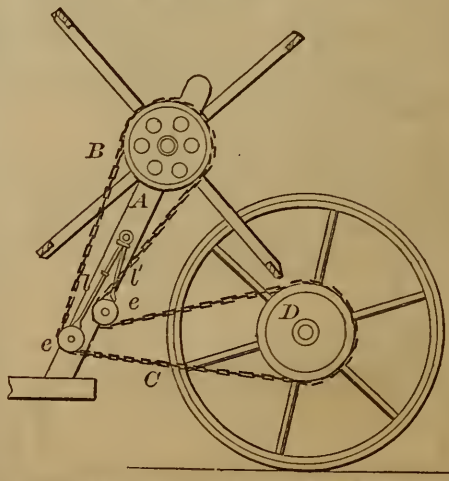


83972—G. D. Jones—*For Cutting Sugar into Blocks.*

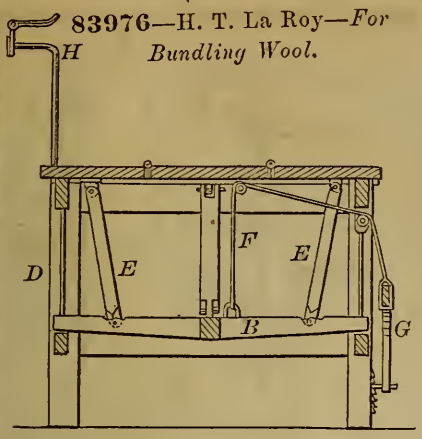


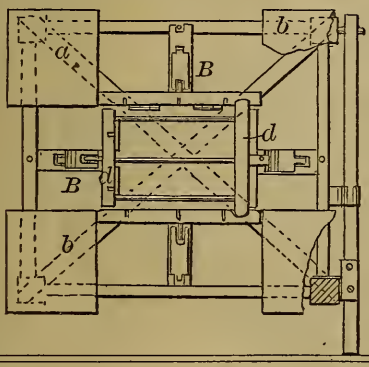


83975—J. M. Knepley—*Harvester.*

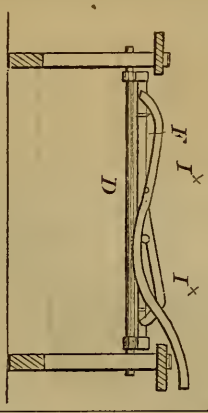


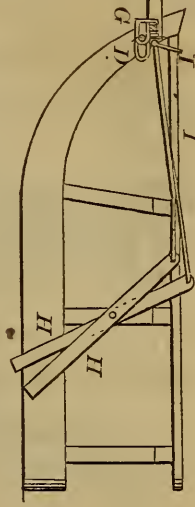
83976—H. T. La Roy—*For Bundling Wool.*



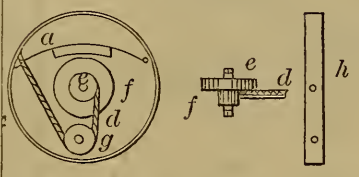


83977—Latta & Snyder—*Sled Brake.*

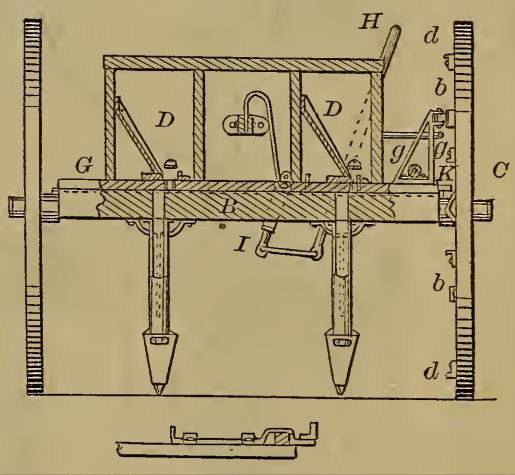




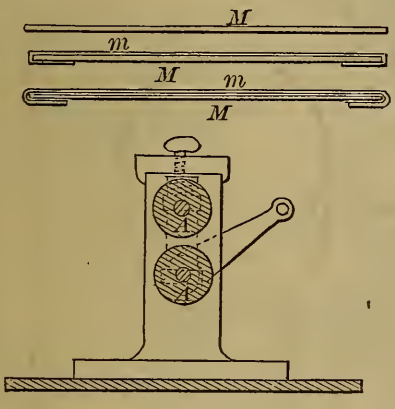
83978—J. Laubereau—*Toy Watch.*



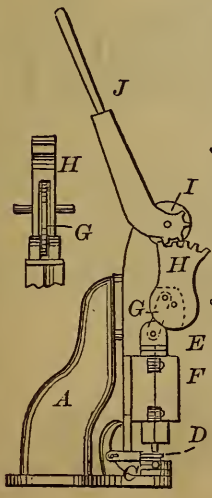
83979—Lawrence & Quick—*Corn Planter.*



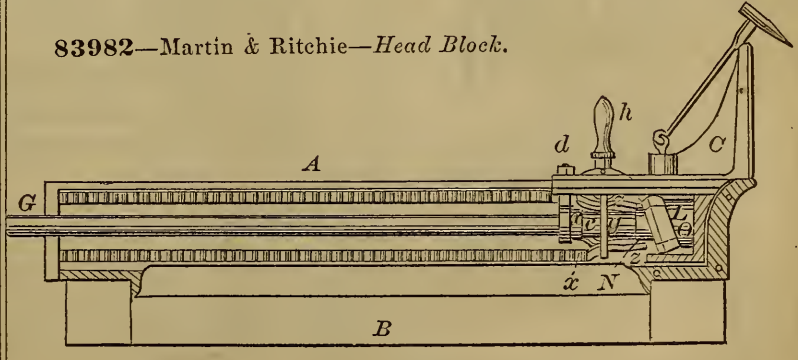
83980—J. S. Lever—*Book Binding.*

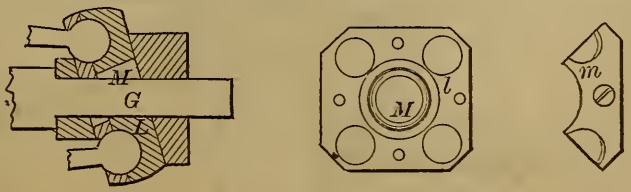


83981—W. Lyon—*Punching Machine.*

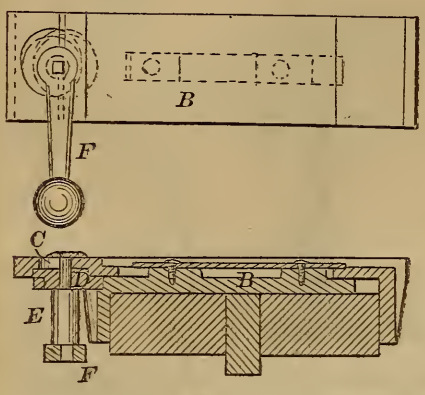


83982—Martin & Ritchie—*Head Block.*

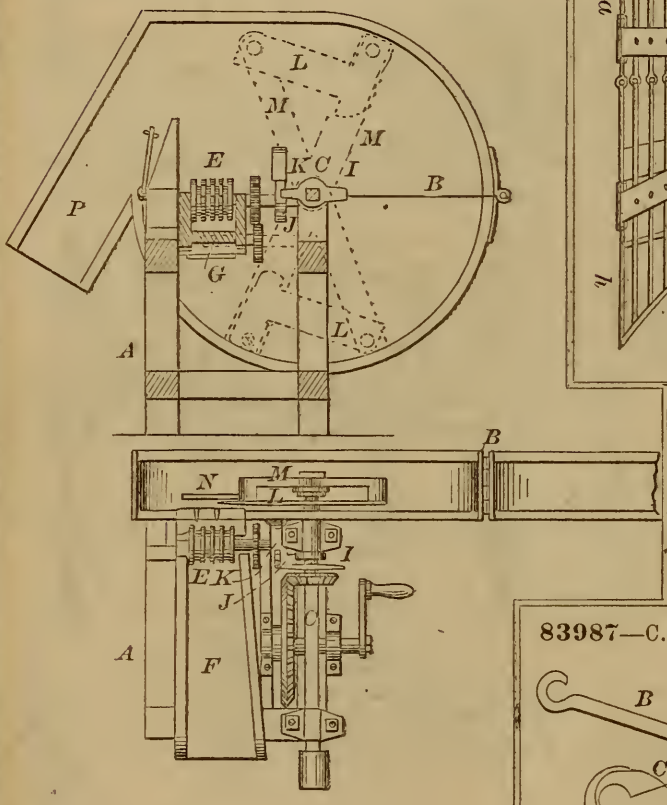




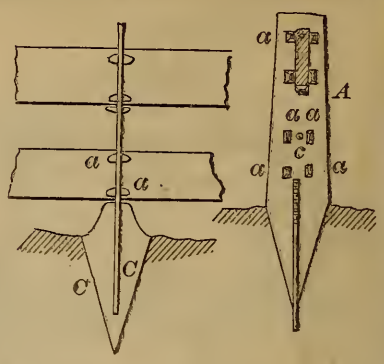
83983—W. K. Marvin—*Sash Fastener.*



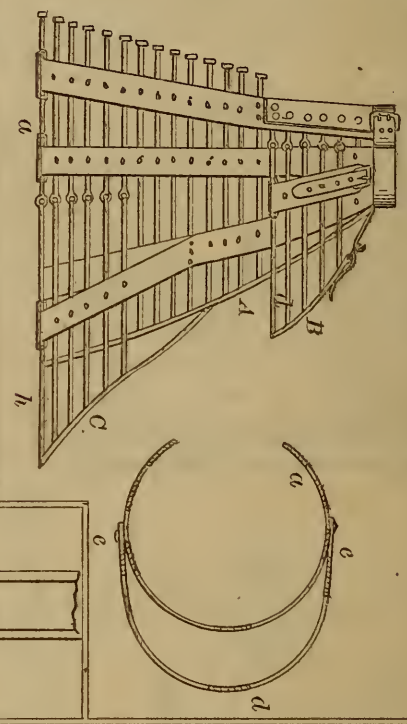
83984—N. McLeod—*Feed Cutter.*



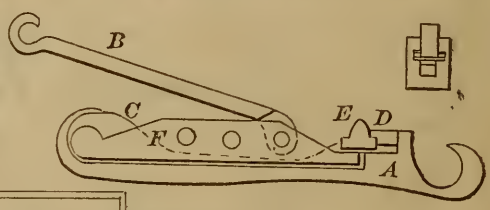
83985—W. Merrell—*Iron Fence Post.*



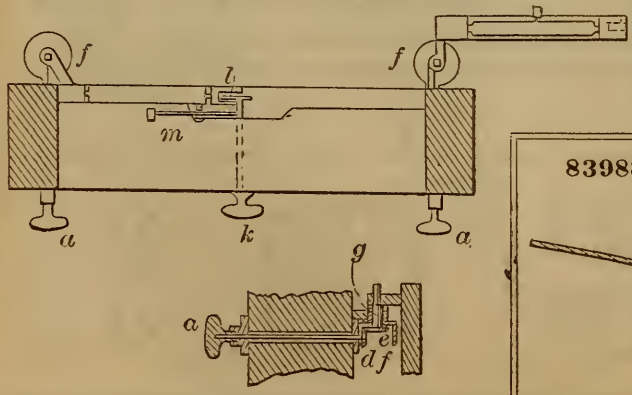
83986—Meyer & Guning—*Hoop Skirt.*



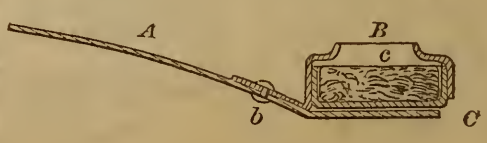
83987—C. Morgan—*Hames Fastening.*



83989—Muller & Hood—*Shutter Worker.*

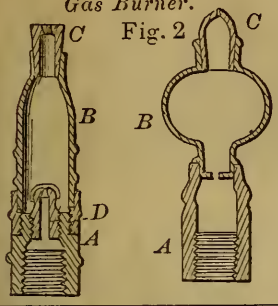


83988—I. Morris—*Fire Kindler.*

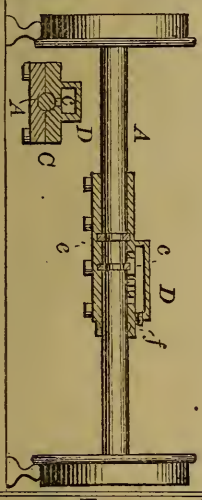


83990—H. B. Myer—*Gas Burner.*

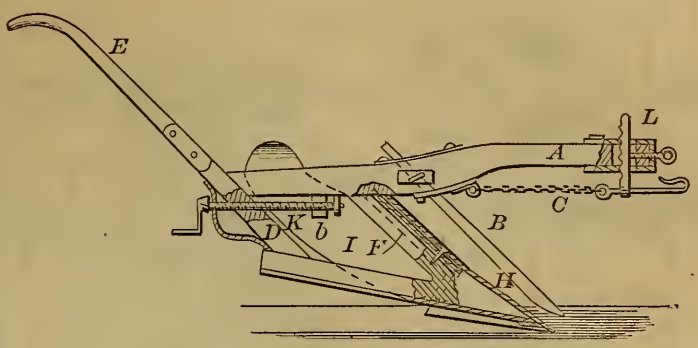
Fig. 2

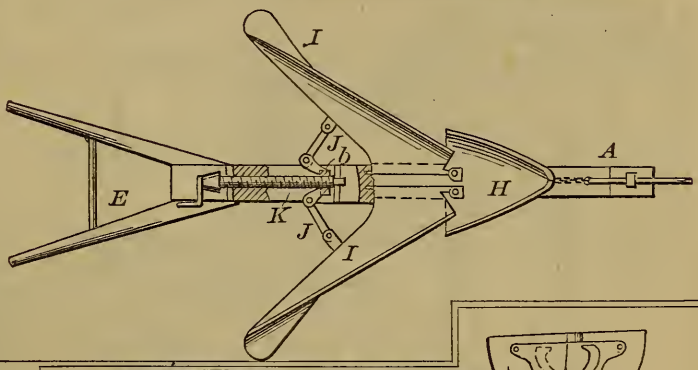


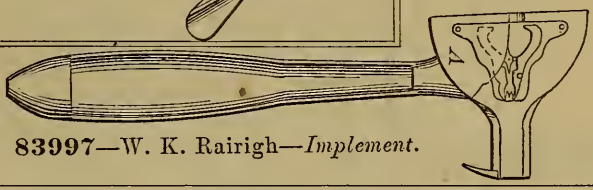
83991—J. K. Nelson—*Divided Car Axle.*



83992—C. F. Noftz—*Potato and Corn Plow.*

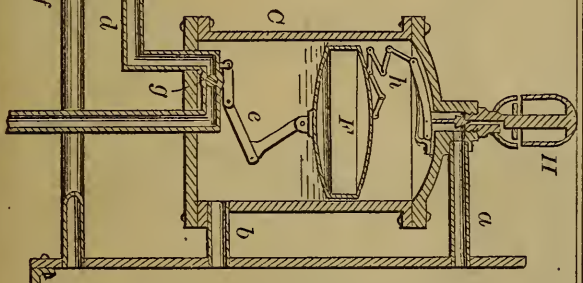




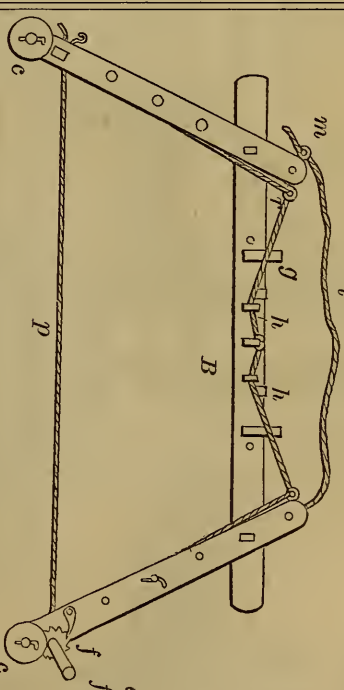


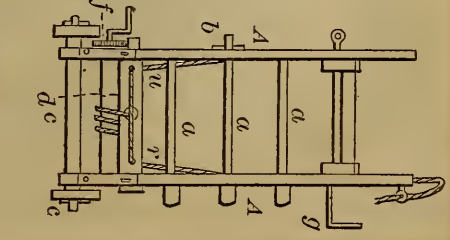
83997—W. K. Rairigh—*Implement.*

83993—J. K. P. Nourse—*Boiler Feed Water Regulator.*

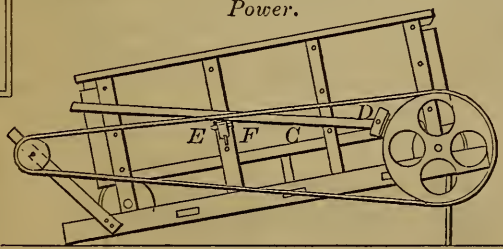


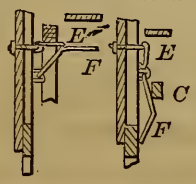
83994—F. Odenbaugh—*Seafold.*





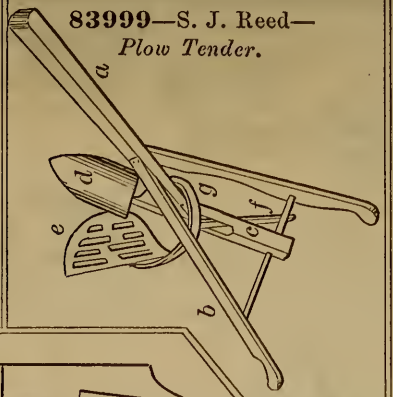
83995—T. G. Palmer—*Brake for Horse Power.*



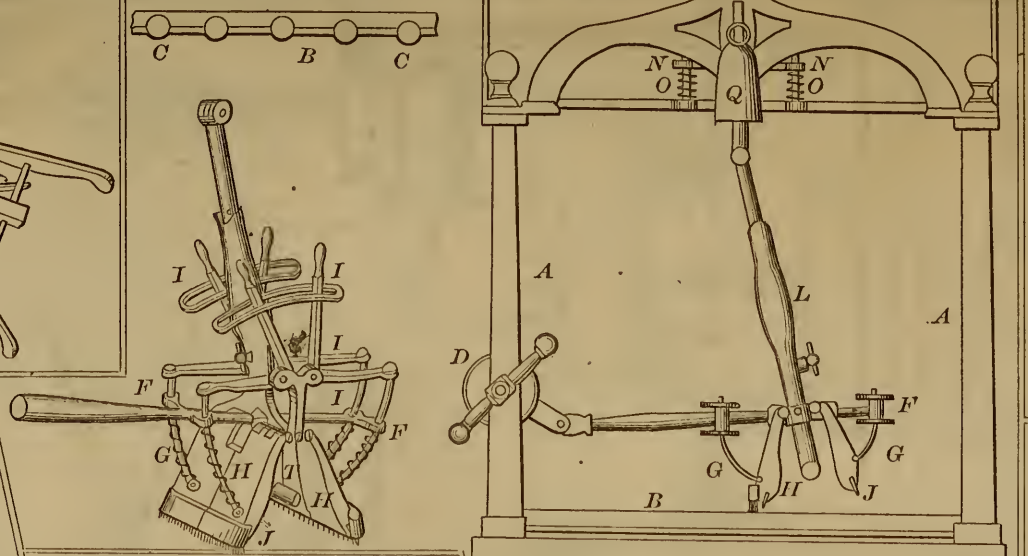


84002—B. L. Ryder—*Potting and Packing Plants.*

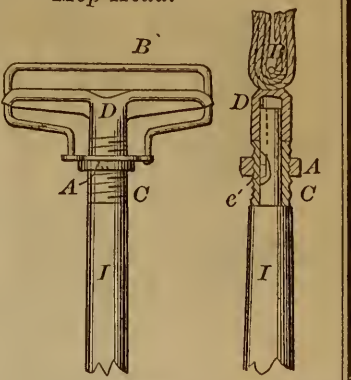
83999—S. J. Reed—*Plow Tender.*



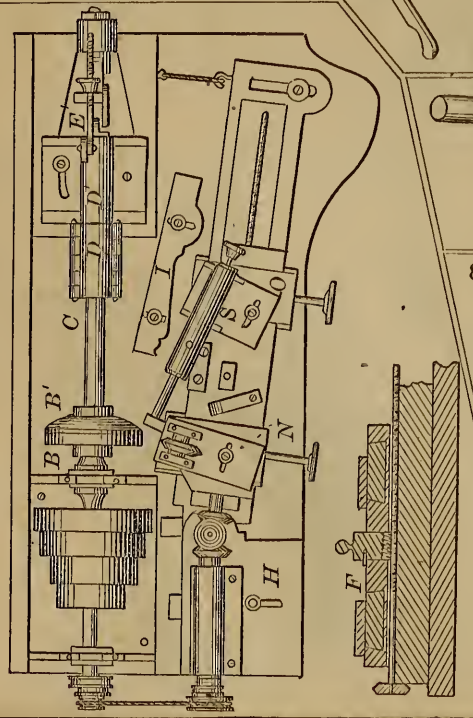
84001—F. W. Rust—*For Scouring, Blacking and Finishing Leather.*



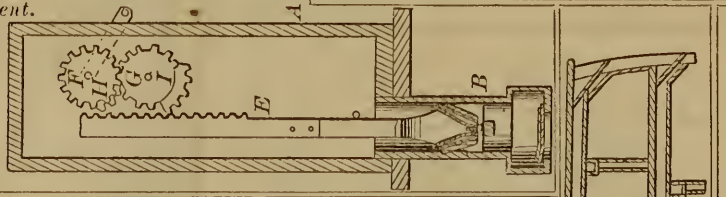
84000—O. Root—*Mop Head.*



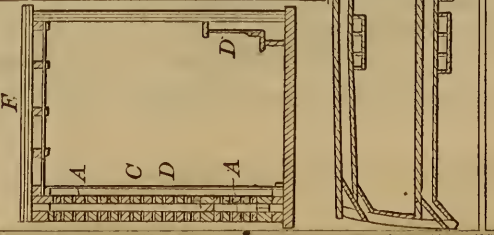
83998—A. Rais—*For Spinning Sheet Metal.*



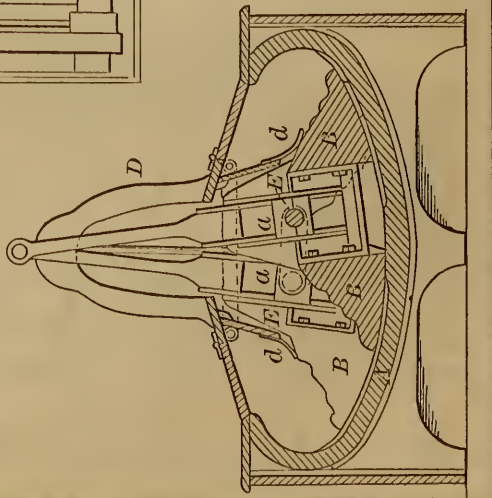
84007—J. A. Shanner—*Mechanical Movement.*



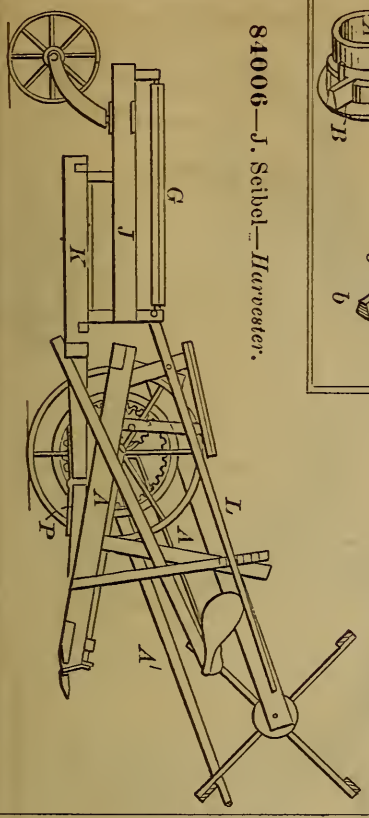
84004—W. Scharrath—*Railroad Car Ventilator.*



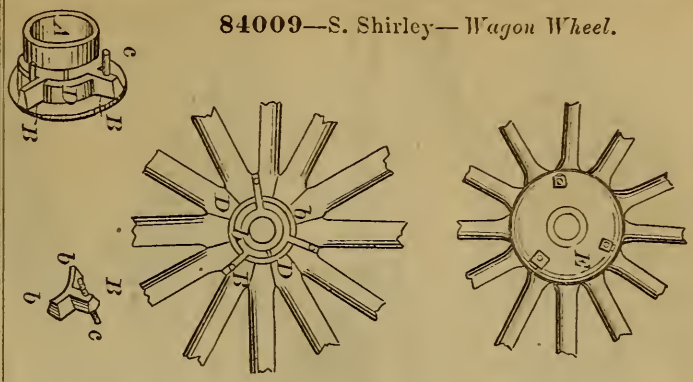
84005—O. Schimmel—*Washing Machine.*



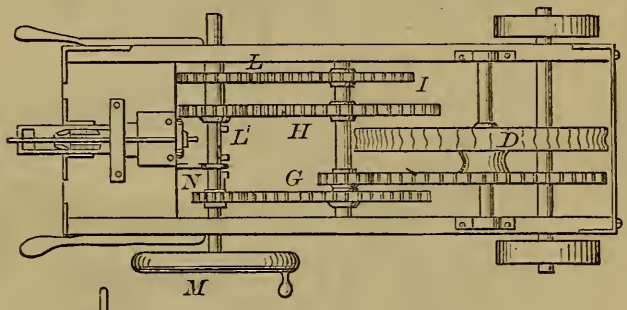
84006—J. Seibel—*Harvester.*

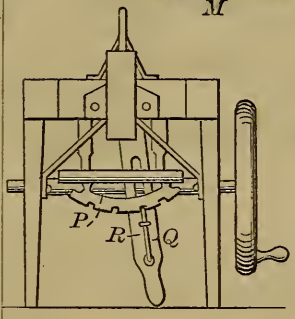


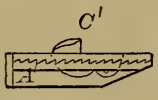
84009—S. Shirley—*Wagon Wheel.*

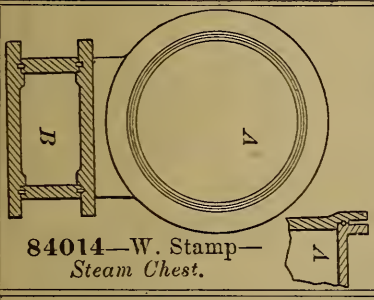


84012—E. Springer—*Railway Car Mover.*



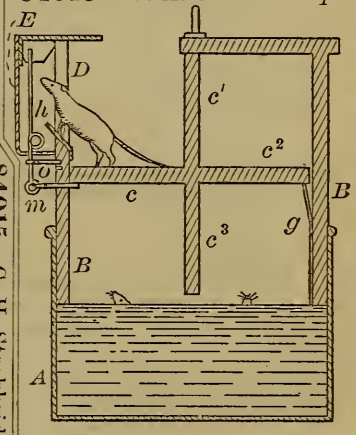




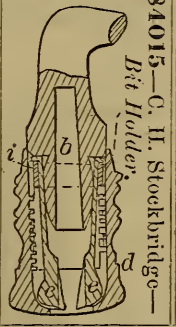


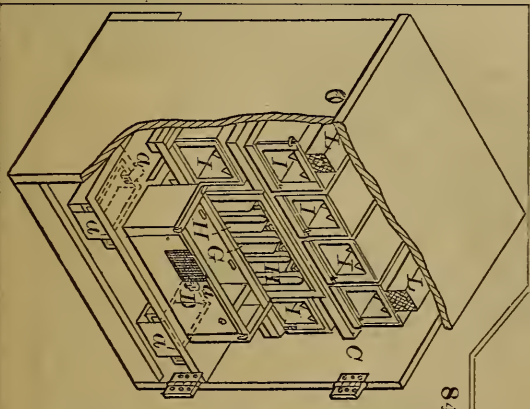
84014—W. Stamp—*Steam Chest.*

84013—W. A. Stack—*Trap.*

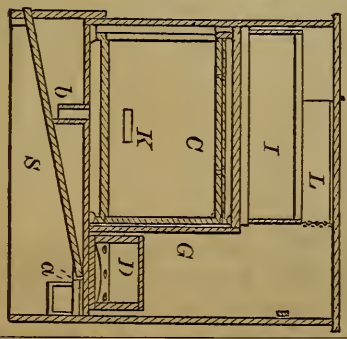


84015—C. H. Stockbridge—*Bit Holder.*

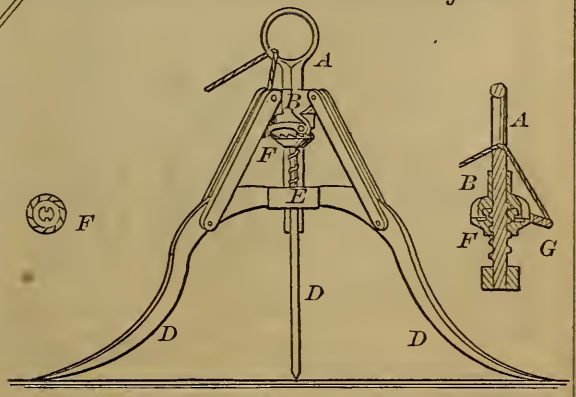




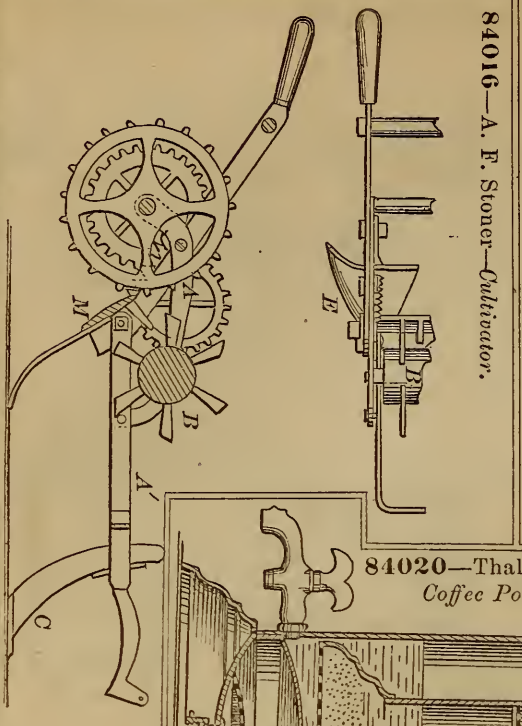
84010—S. Shrock—*Beehive.*



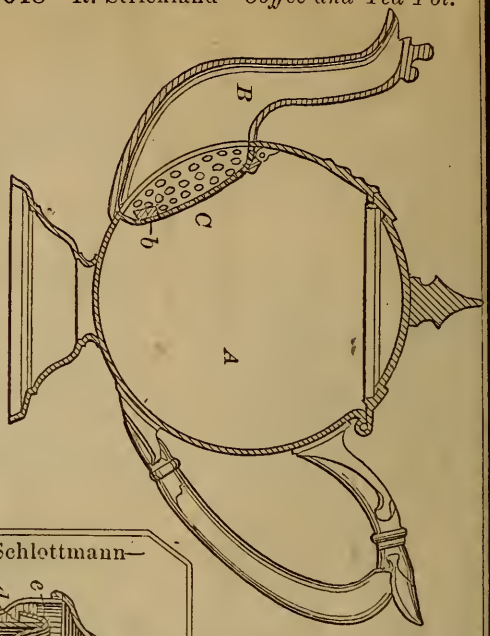
84017—O. O. Storle—*Horse Hay Fork.*



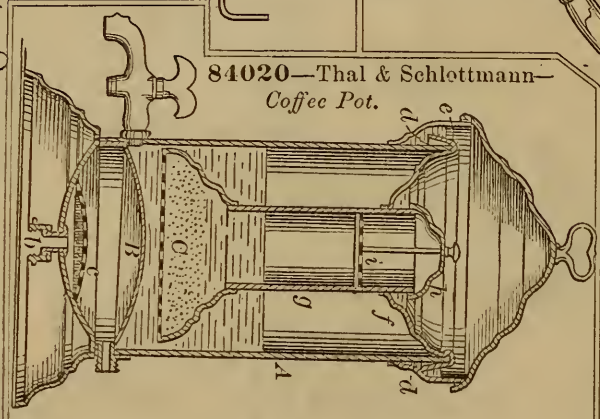
84016—A. F. Stoner—*Cultivator.*



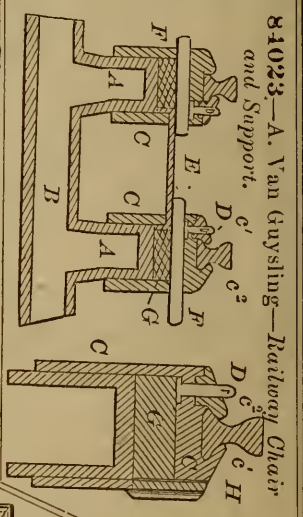
84018—R. Strickland—*Coffee and Tea Pot.*



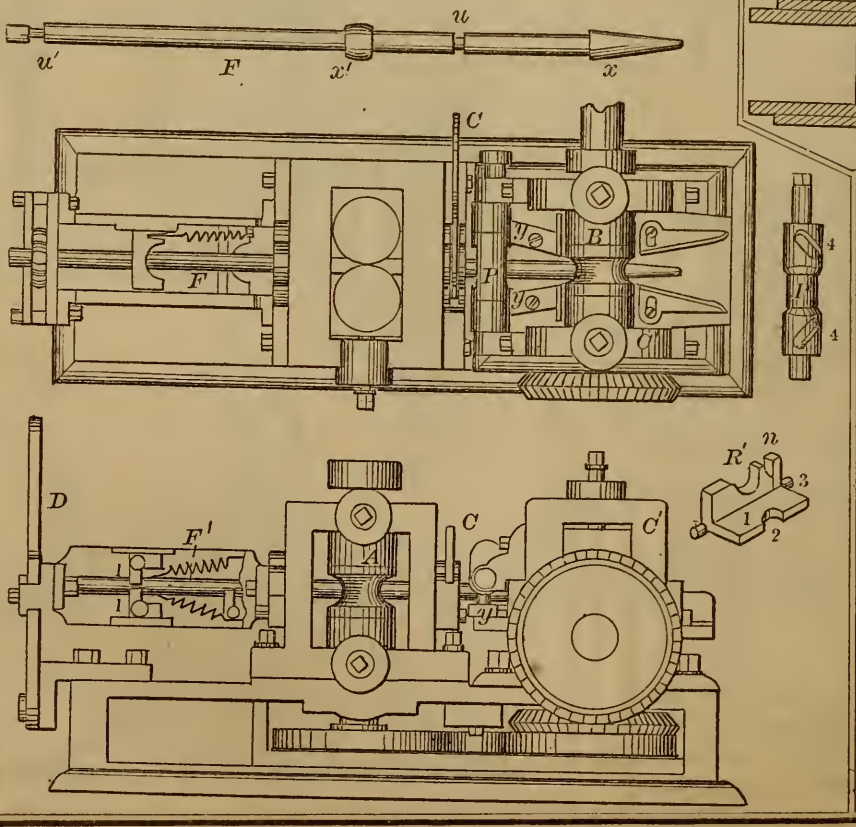
84020—Thal & Schlottmann—*Coffee Pot.*



84023—A. Van Guysling—*Railway Chair and Support.*

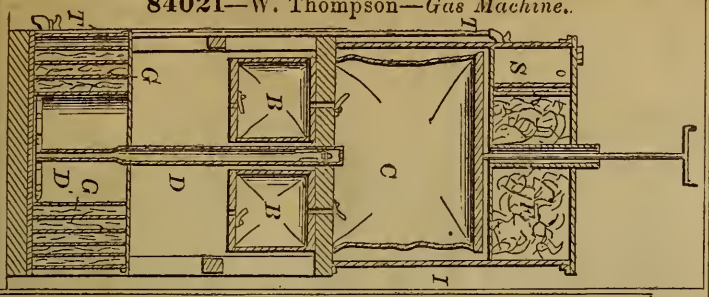


84019—J. E. Tencate—*For Welding Tubing.*

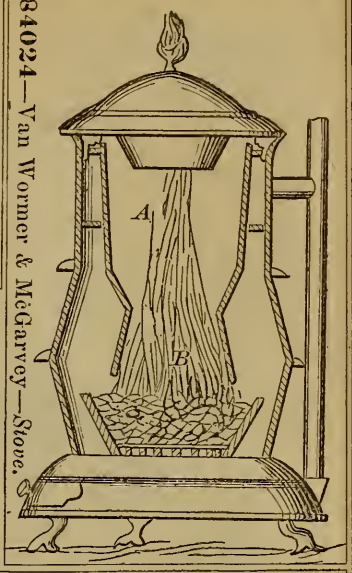


84022—W. J. Towne—*Packing for Steam Engine Joints.*

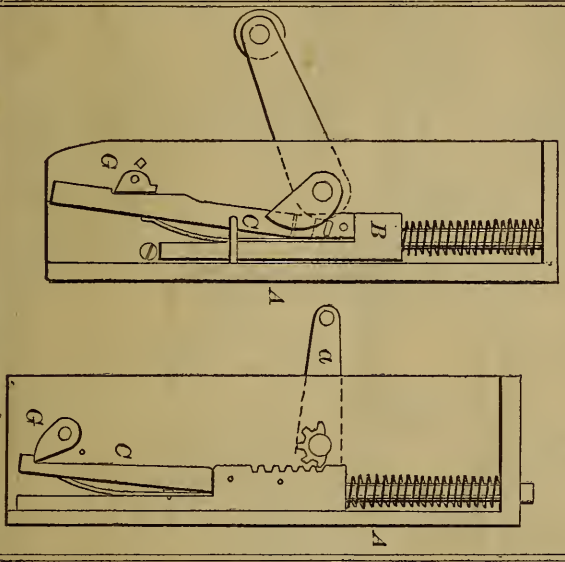
84021—W. Thompson—*Gas Machine.*



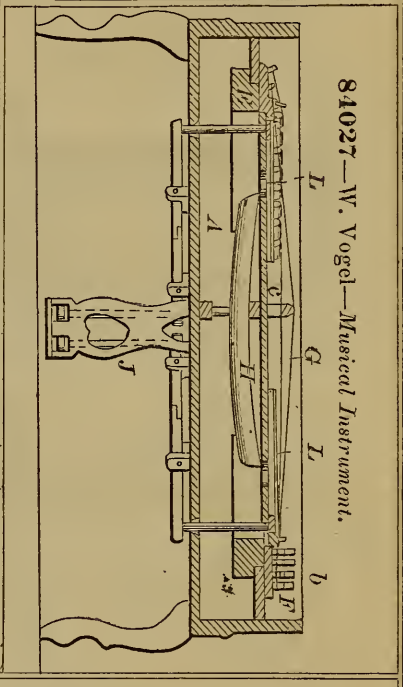
84024—Van Wormer & McGarvey—*Stove.*



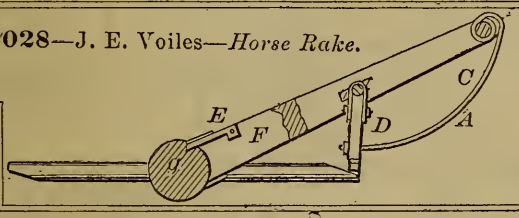
84025—F. J. Vitum—*Pegging Machine.*

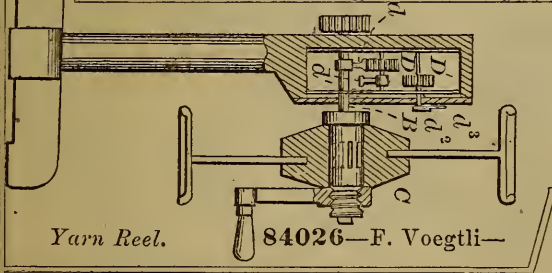


84027—W. Vogel—*Musical Instrument.*



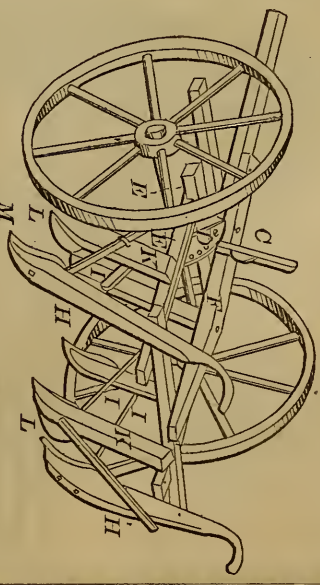
84028—J. E. Voiles—*Horse Rake.*



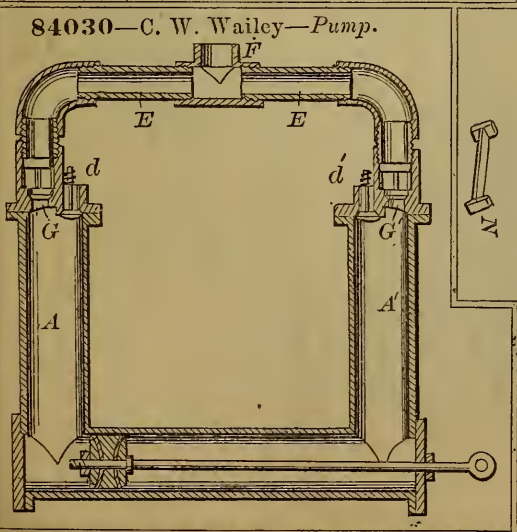


Yarn Reel. **84026**—F. Voegtli—

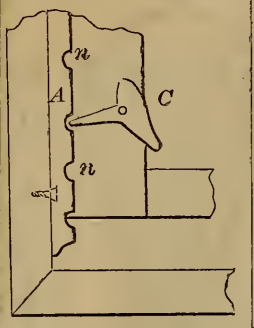
84029—J. Vowles—*Cultivator.*



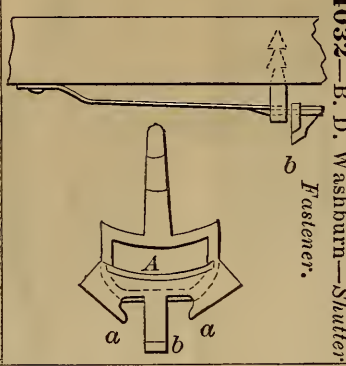
84030—C. W. Wailey—*Pump.*



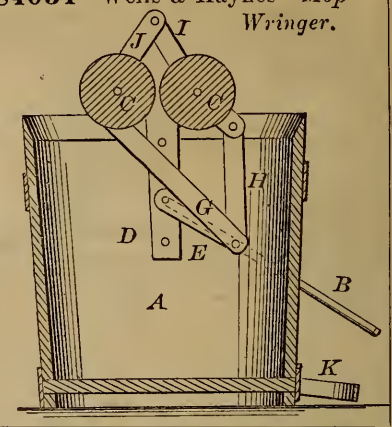
84031—F. Walker—*Sash Stop and Holder.*



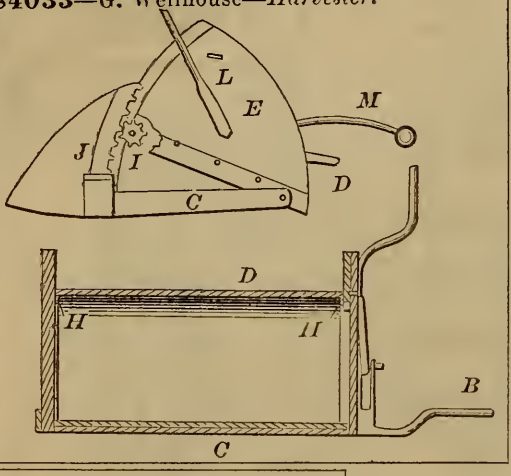
84032—B. D. Washburn—*Shutter Fastener.*



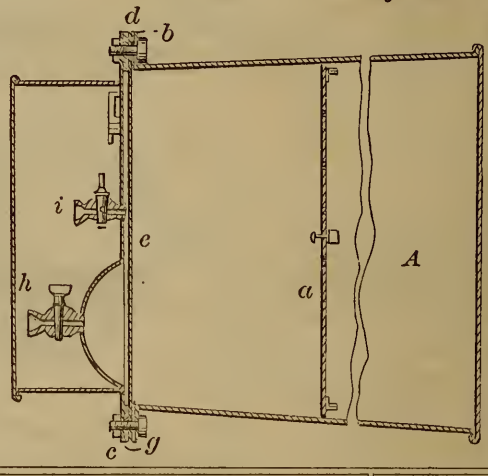
84034—Wells & Haynes—*Mop Wringer.*



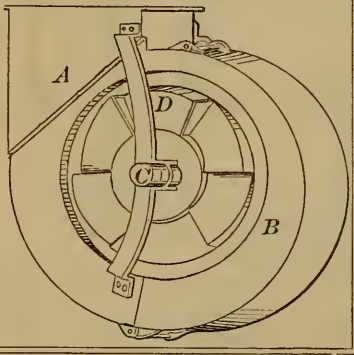
84033—G. Wellhouse—*Harvester.*



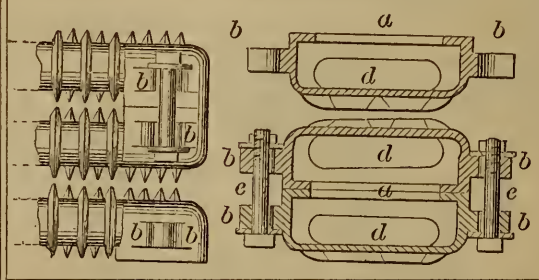
84038—W. Wiesmann—*Preserving Meat.*



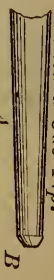
84035—G. W. Wesley—*Water Wheel.*



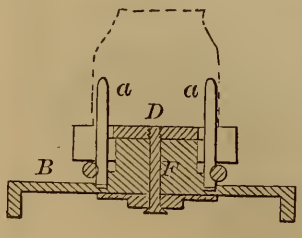
84037—C. Whittier—*Steam Radiator.*



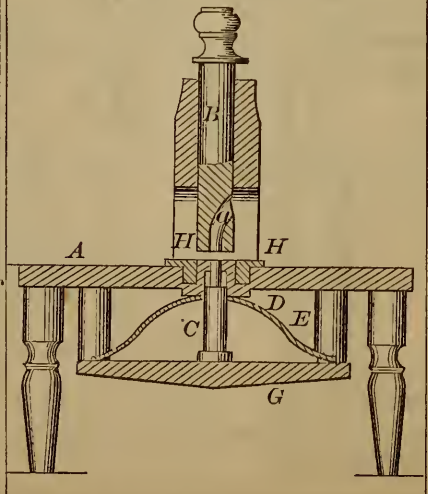
84036—A. Wetherbee—*Billiard Cue Tip.*



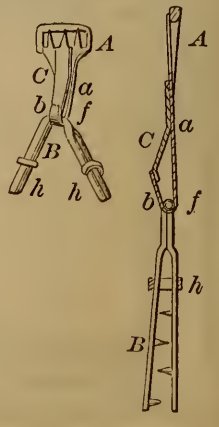
84040—S. R. Wilmot—*For Sizing Glass Cylinders.*



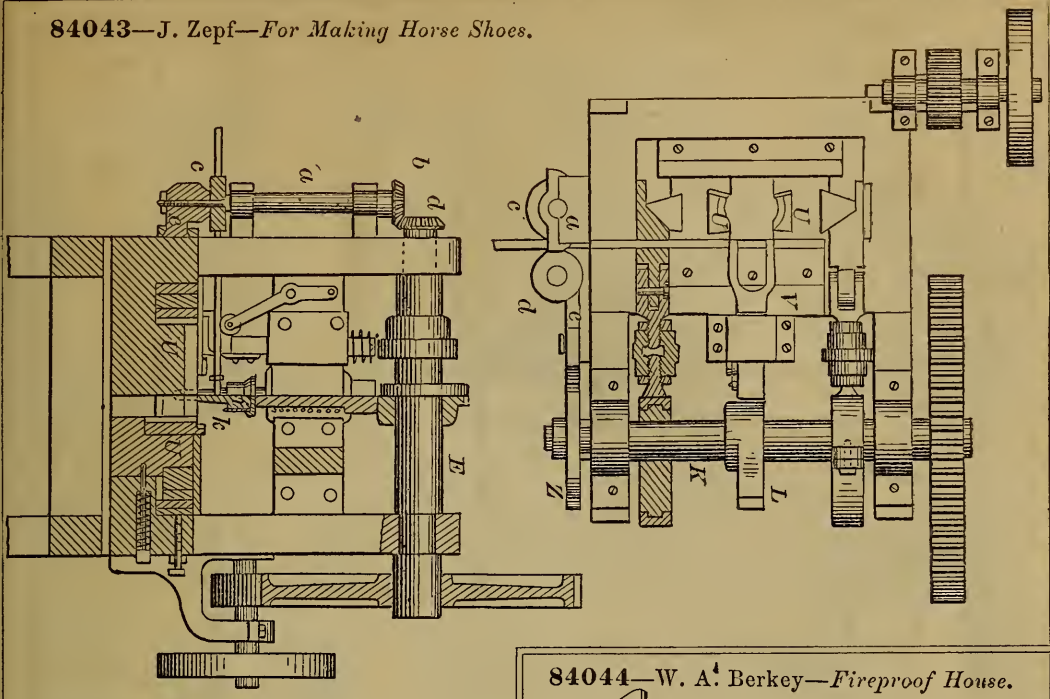
84039—G. C. Wilder—*Punch.*



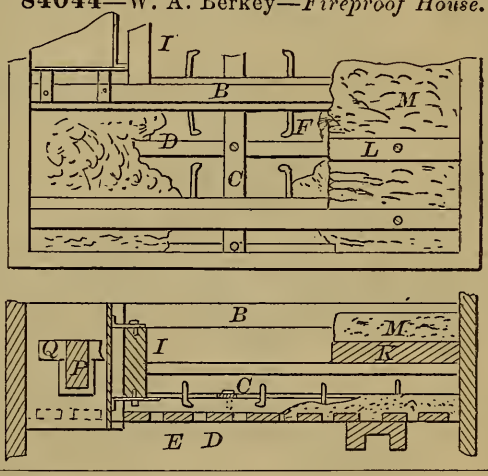
84042—W. Wright—*Suspender Fastening*



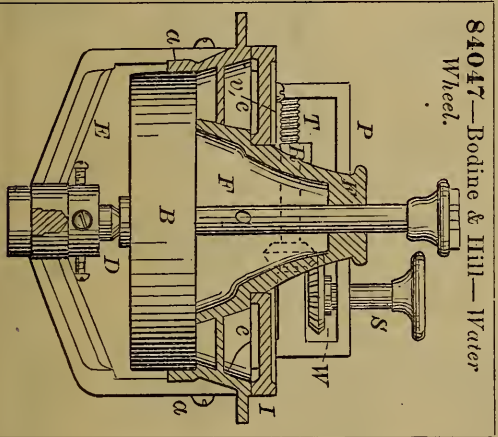
84043—J. Zepf—*For Making Horse Shoes.*



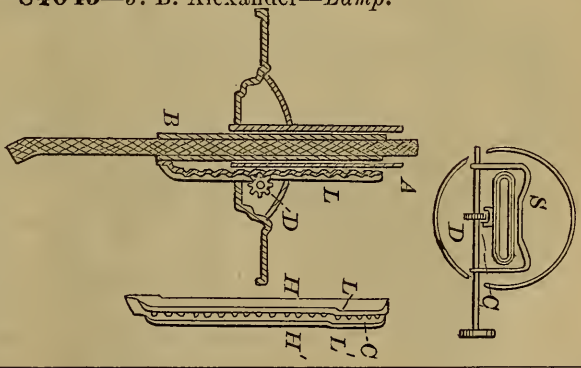
84044—W. A. Berkey—*Fireproof House.*



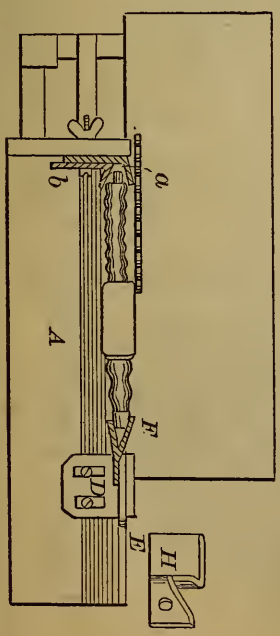
84047—Bodine & Hill—*Water Wheel.*



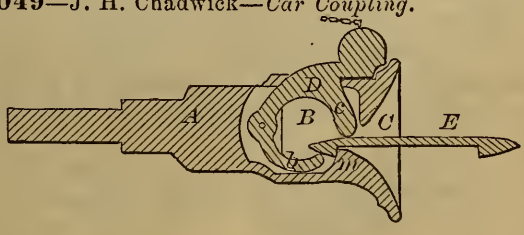
84045—J. B. Alexander—*Lamp.*



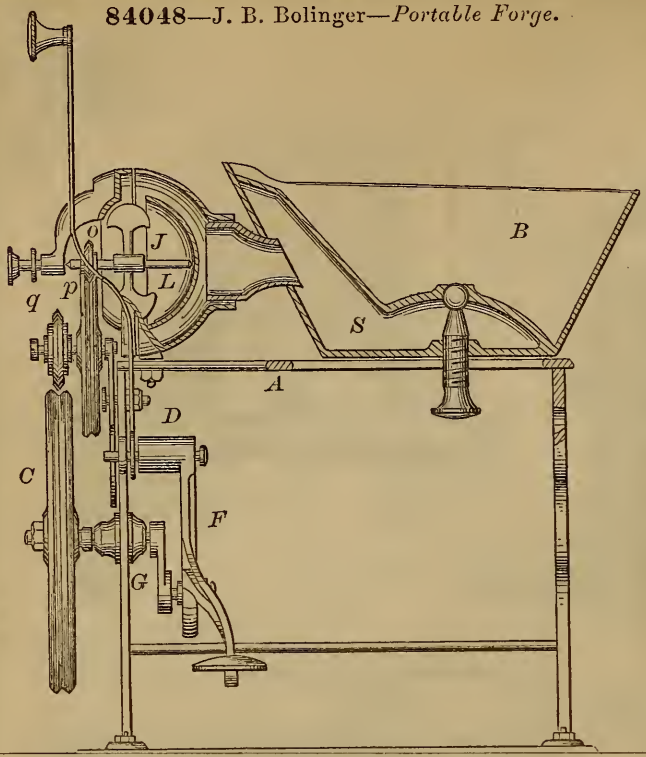
84046—Black & Gaffney—*Device for Saw Carriages.*



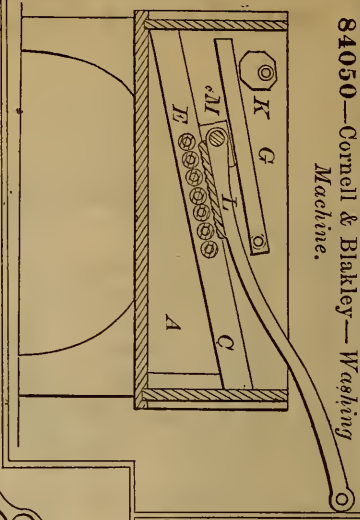
84049—J. H. Chadwick—*Car Coupling.*



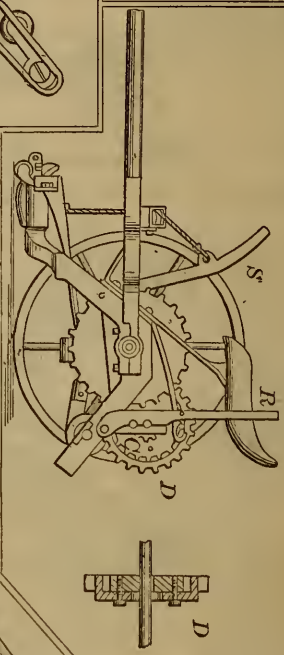
84048—J. B. Bolinger—*Portable Forge.*



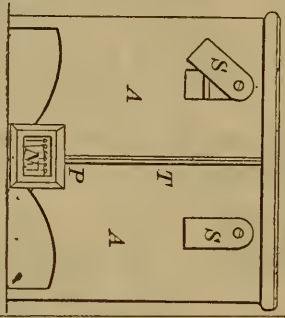
84050—Cornell & Blakley—*Washing Machine.*

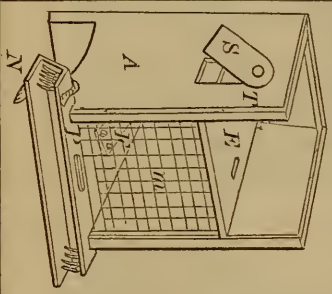


84051—A. G. Donnelly—*Harvester.*

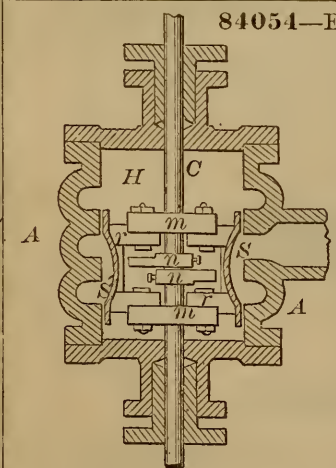


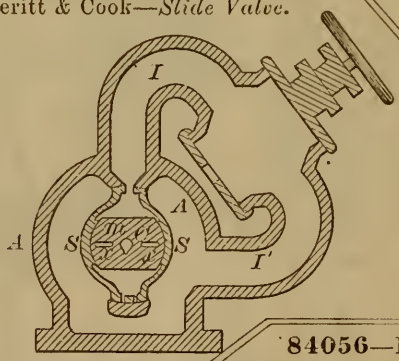
84052—B. Douthett—*Bedstead.*

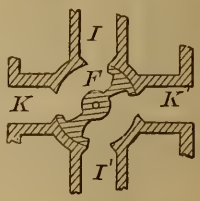




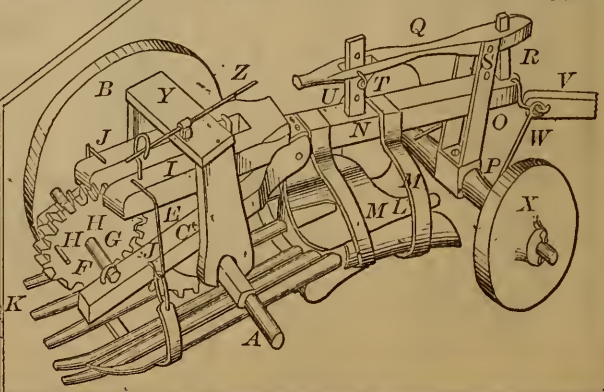
84054—Everitt & Cook—*Slide Valve.*



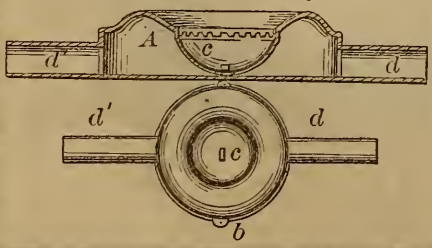




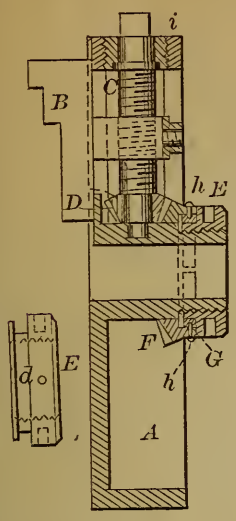
84056—H. France—*Potato Digger.*



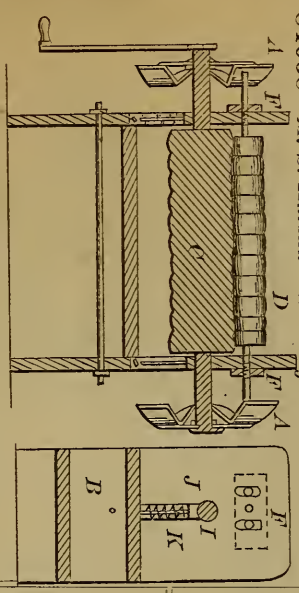
84059—A. Herbig—*Tuyere.*



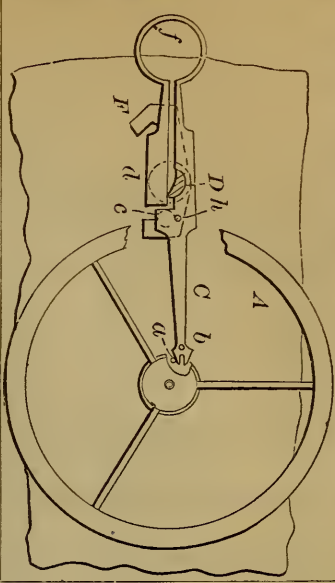
84057—C. F. Hadley—*Chuck.*



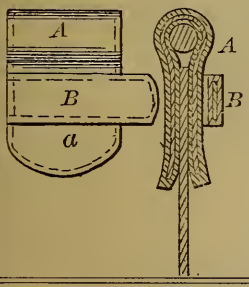
84058—M. S. Harsha—*Washing Machine.*



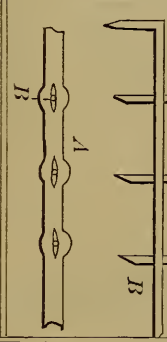
84060—Hietel & Geissler—*Watch Escapement.*



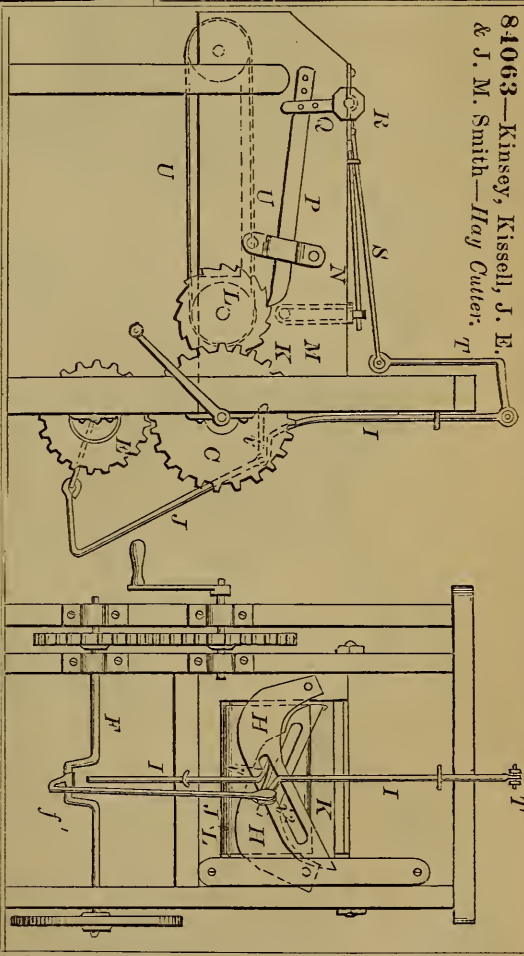
84061—I. Hull—*Rein Holder.*



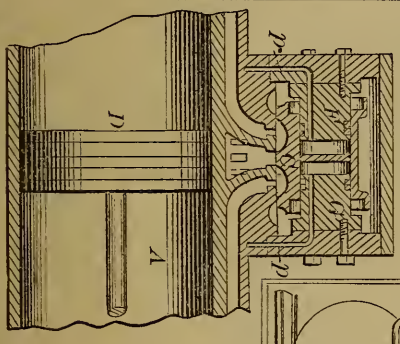
84062—M. Kelly—*Fence.*



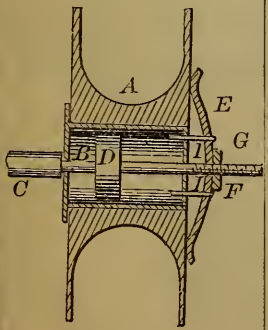
84063—Kinsey, Kissell, J. E. & J. M. Smith—*Hay Cutter.*



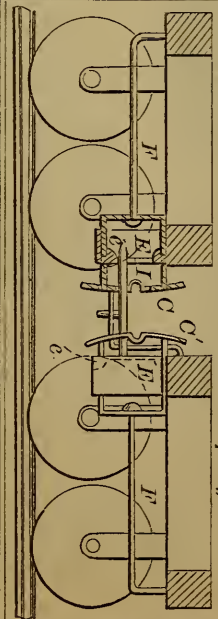
84064—Lee & Wren—*Steam Engine Valve.*



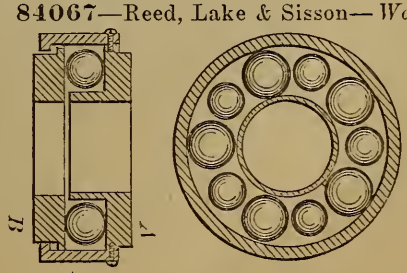
84065—S. D. Locke—*Grain Binder.*



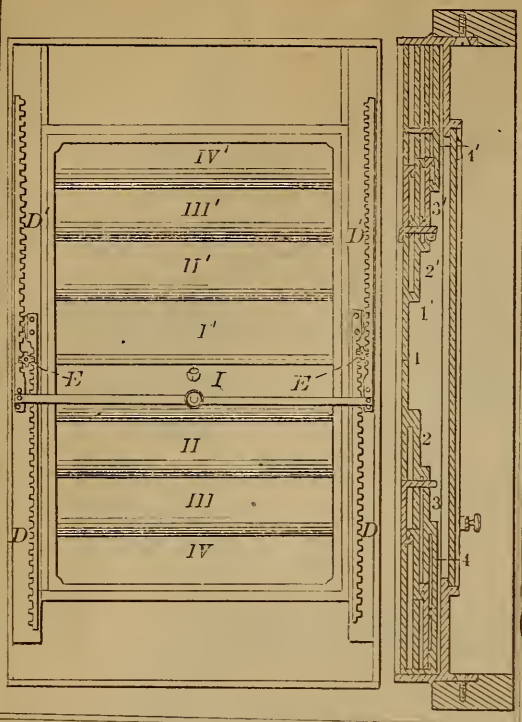
84066—Osman & Potter—*Car Coupling.*



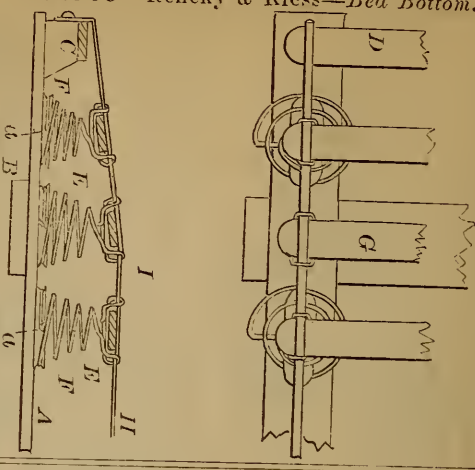
84067—Reed, Lake & Sisson—*Washer.*



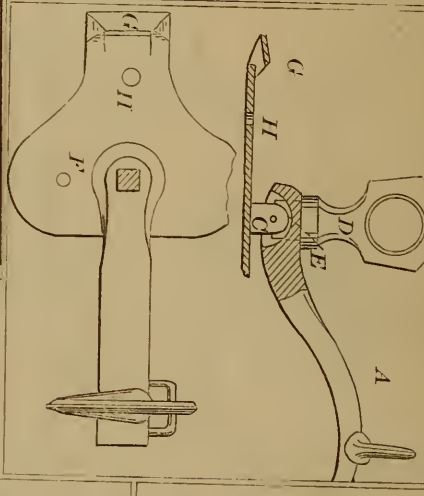
84068—F. A. Reiher—*Window Shutter.*



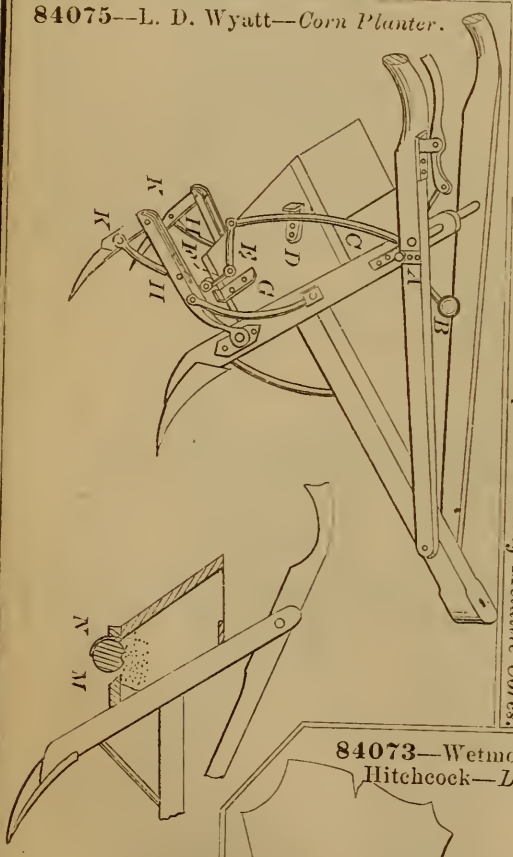
84069—Reneky & Kiess—*Bed Bottom.*



84071—Sharp & Shannon—*Harness Tree Pad.*

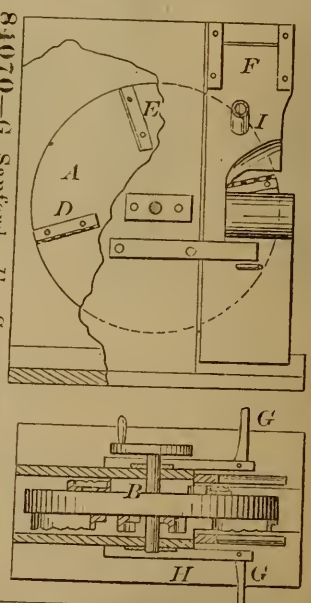


84075—L. D. Wyatt—*Corn Planter.*

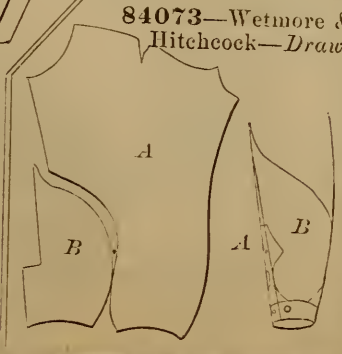


84072—A. Shepard—*Venting Metallic Cores.*

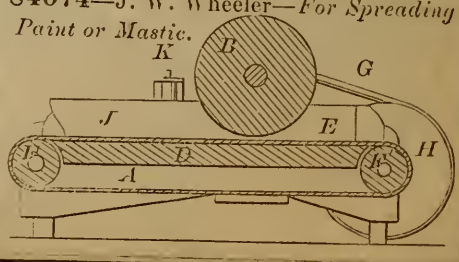
84070—G. Sanford—*For Separating the Pulp from Fibrous Substances.*



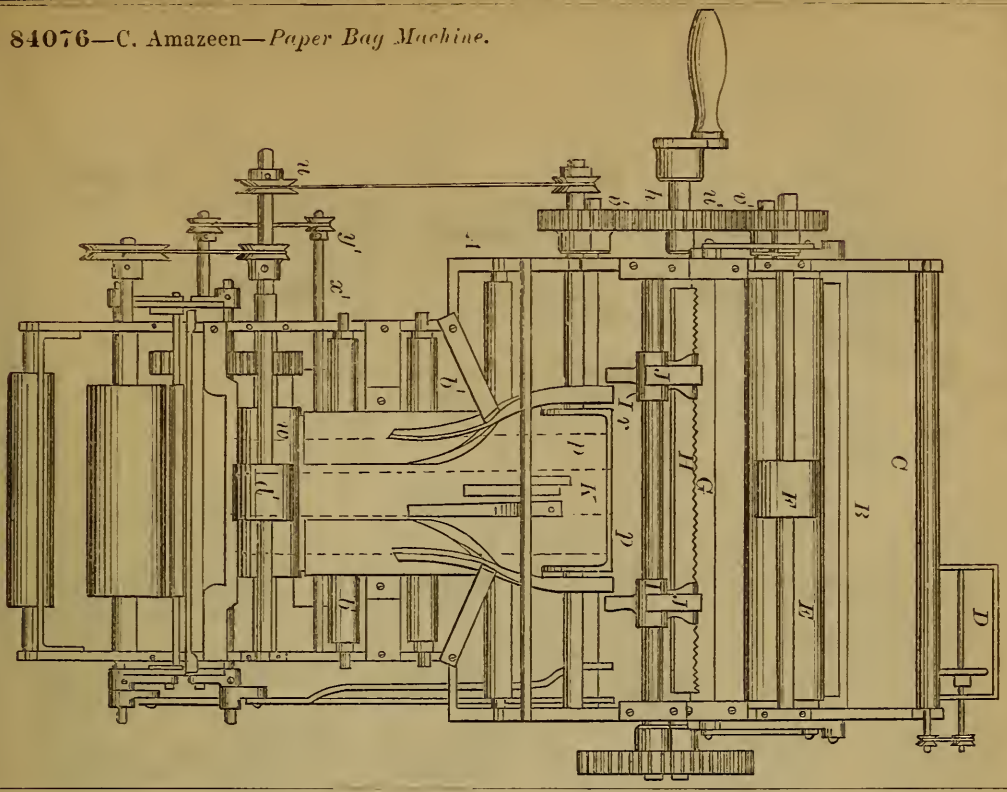
84073—Wetmore & Hitchcock—*Drawers.*



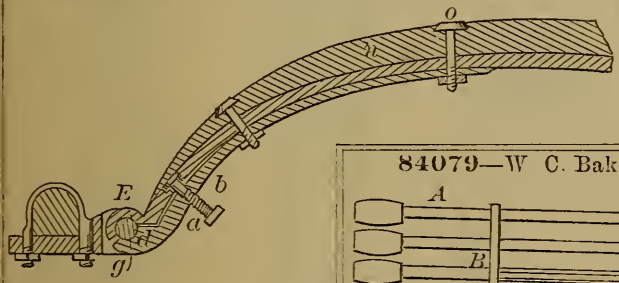
84074—J. W. Wheeler—*For Spreading Paint or Mastic.*



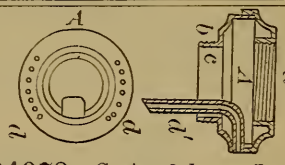
84076—C. Amazeen—*Paper Bag Machine.*



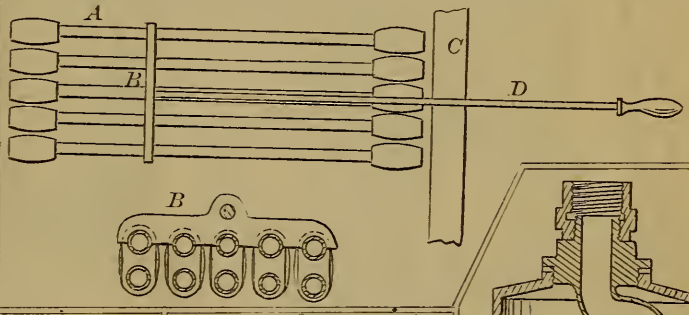
84077—W. W. Anderson—*Thill Coupling.*



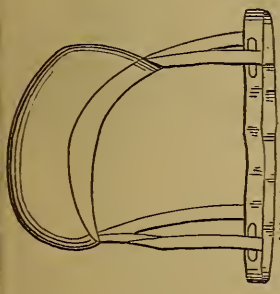
84078—C. Applebee—*Lamp.*



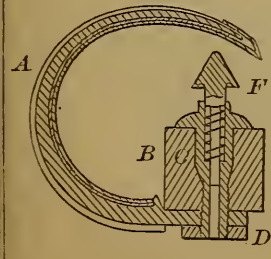
84079—W C. Baker—*Boiler Flue Cleaner.*



84083—G. E. Brinckerhoff—*Cutaneial Sack.*

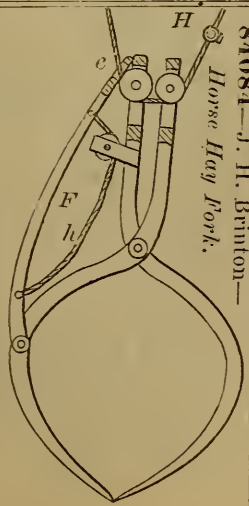


84080—C. H. Bassett—*Harness Check Hook.*

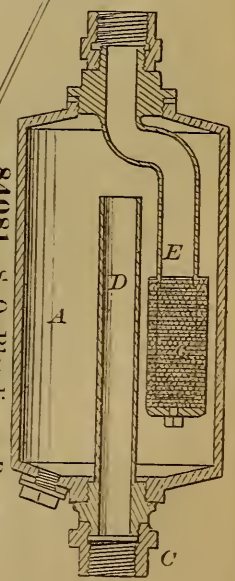


84082—A. R. Boylson—*Waist Belt.*

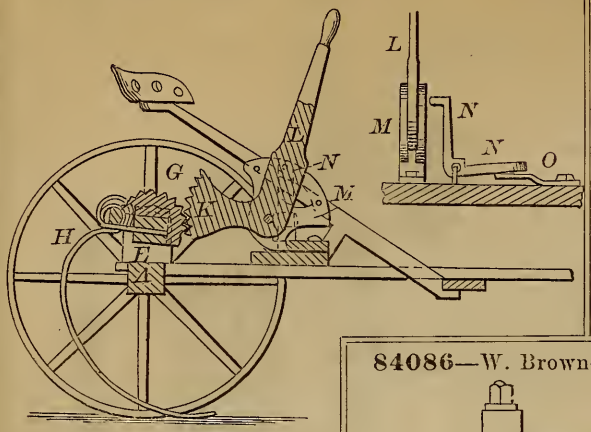
84084—J. H. Brinton—*Horse Hay Fork.*



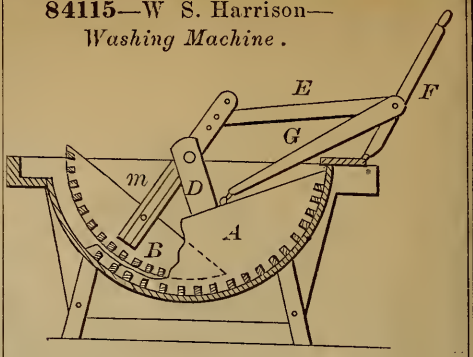
84081—S. O. Blanding—*Pump.*



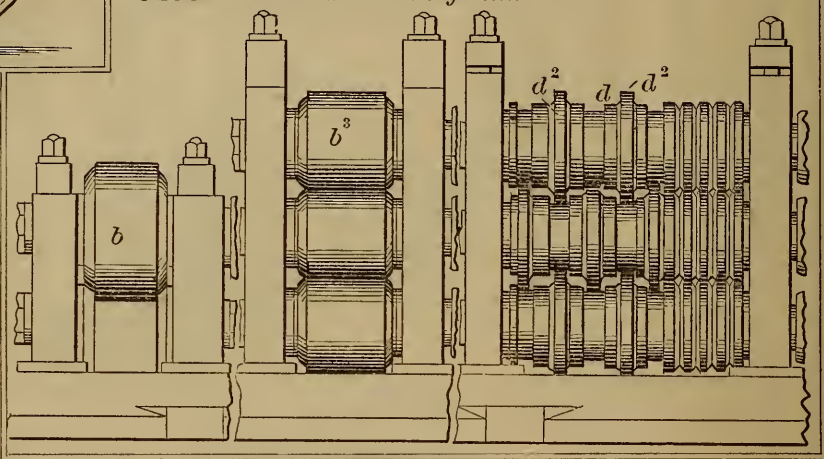
84085—H. L. Brown—*Horse Rake.*



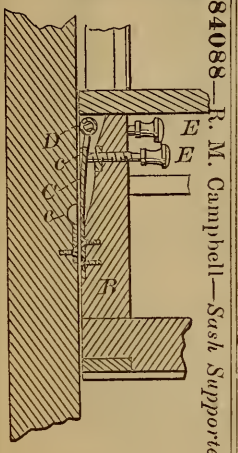
84115—W S. Harrison—*Washing Machine.*



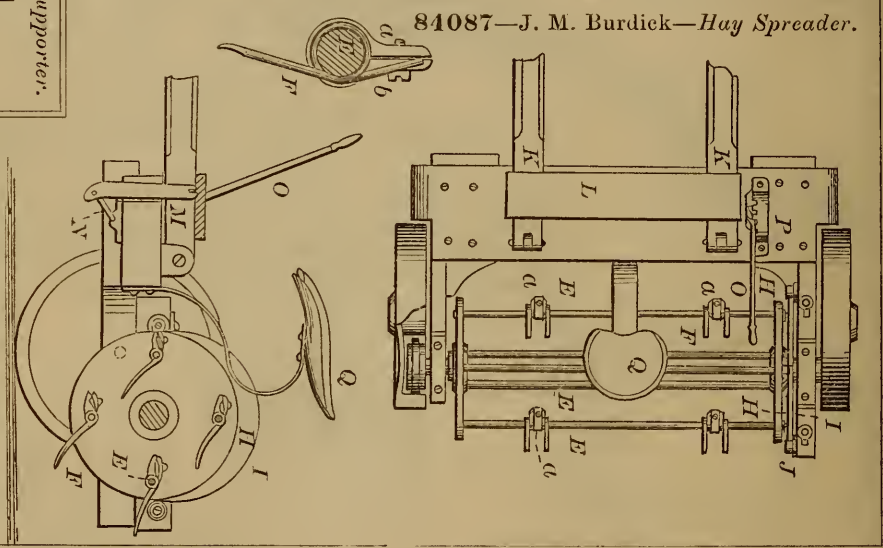
84086—W. Brown—*Rolling Mill.*



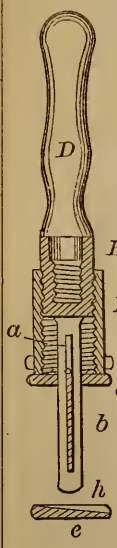
84088—R. M. Campbell—*Sash Supporter.*



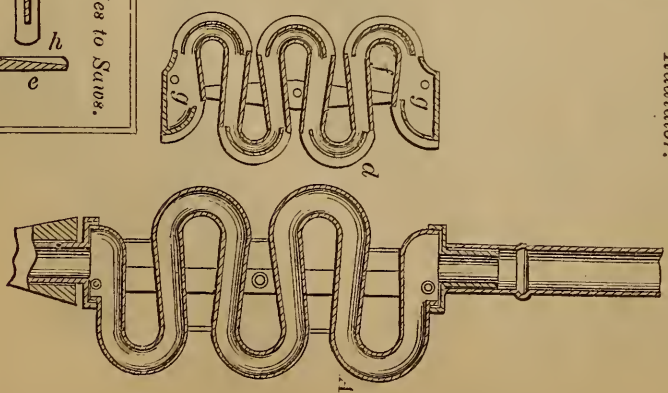
84087—J. M. Burdick—*Hay Spreader.*



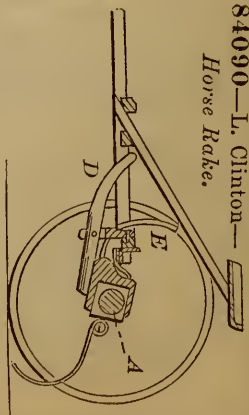
84095—S. Disston—*Attaching Handles to Saws.*



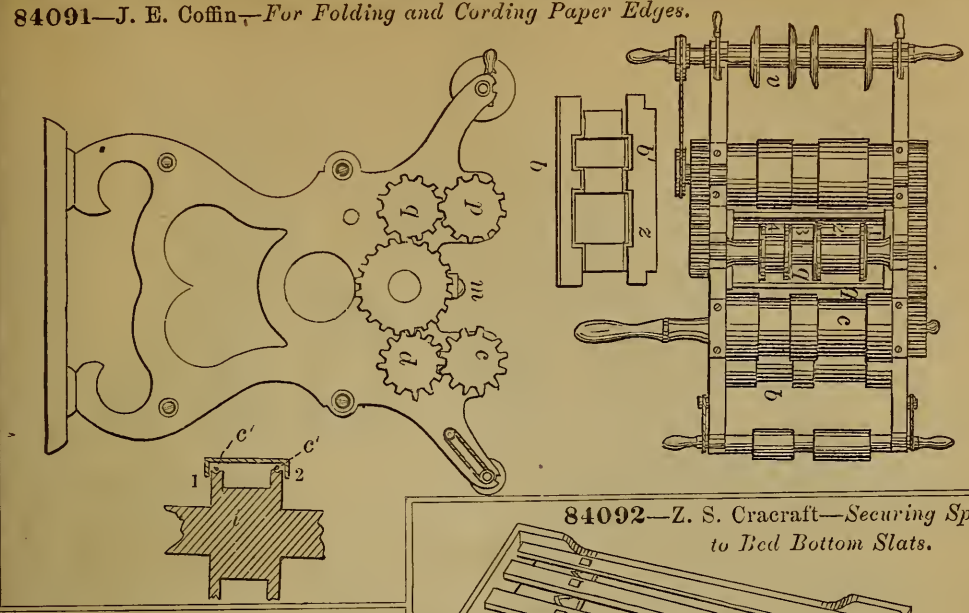
84089—W. B. Choate—*Heat Radiator.*



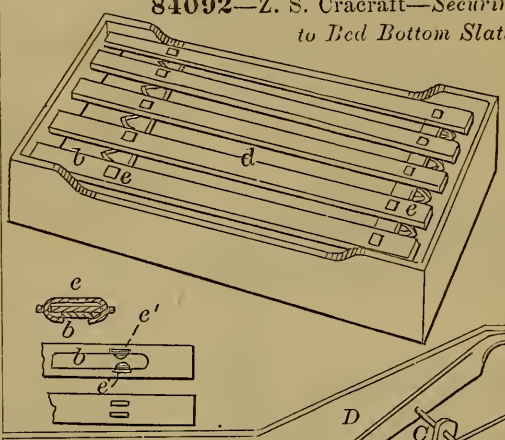
84090—L. Clinton—*Horse Rake.*



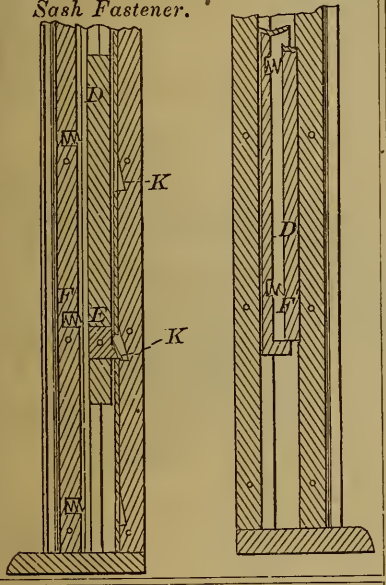
84091—J. E. Coffin—*For Folding and Cording Paper Edges.*



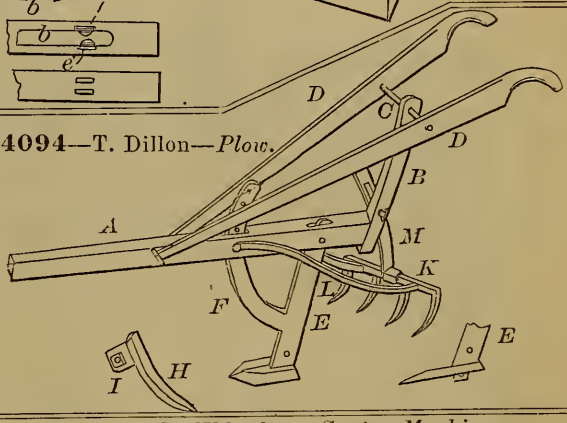
84092—Z. S. Cracraft—*Securing Springs to Bed Bottom Slats.*



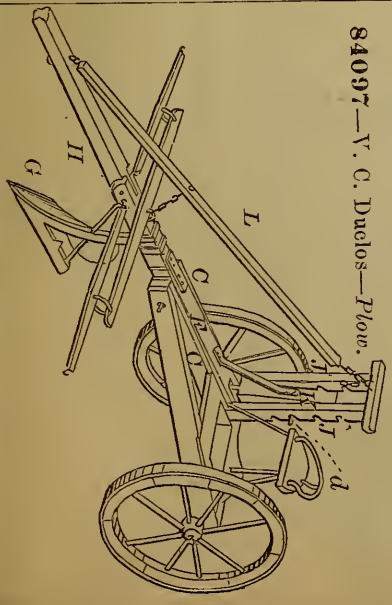
84093—W. J. De Grummond—*Sash Fastener.*



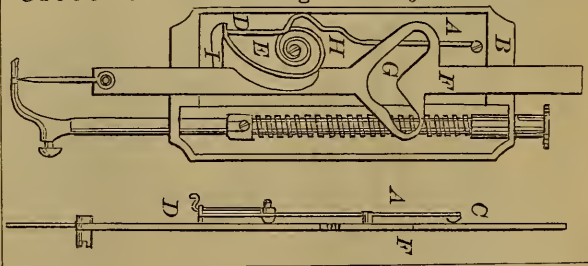
84094—T. Dillon—*Plow.*



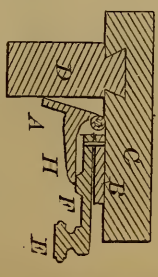
84097—V. C. Duclos—*Plow.*



84099—J. V. D. Eldredge—*Sewing Machine.*

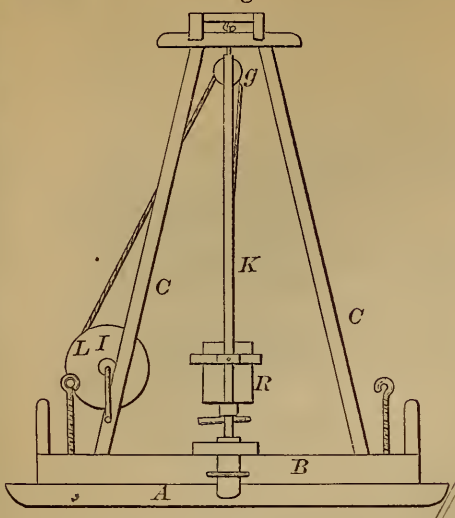


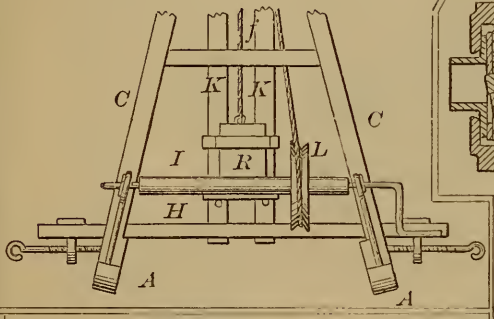
84098—W. Edson—*Sash Fastener.*



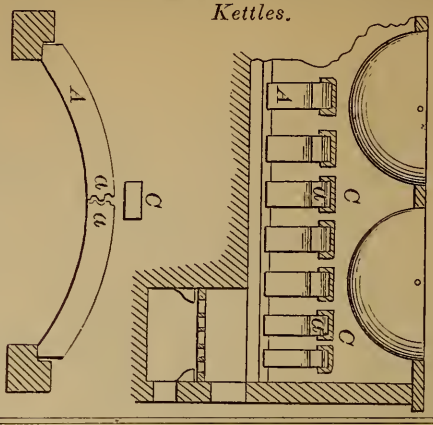
84103—J. H. Foote—*Candle Cup.*

84100—J. Ellenberger—*Post Driver.*

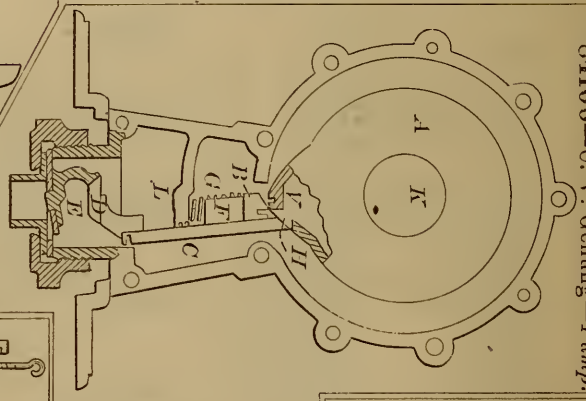




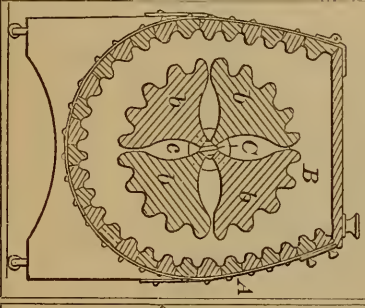
84101—J. English—*Arch for Evaporating Kettles.*

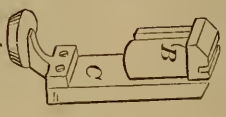


84106—C. V. Genung—*Pump.*

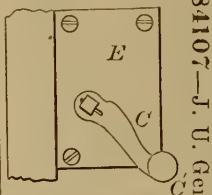


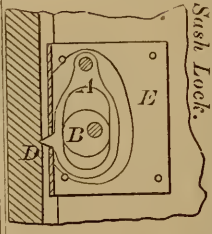
84102—C. F. Fleming—*Washing Machine.*



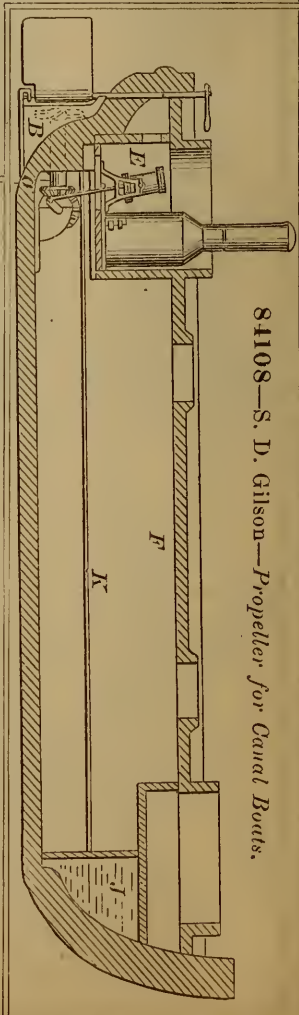


84107—J. U. Gerow—*Sash Lock.*

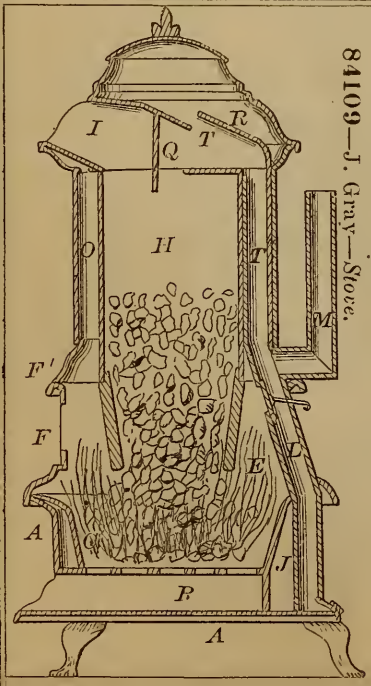


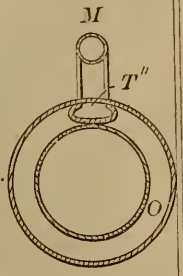


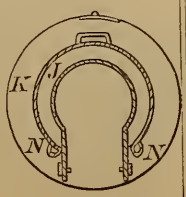
84108—S. D. Gilson—*Propeller for Canal Boats.*

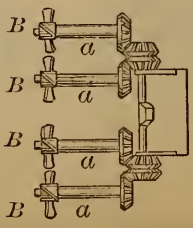


84109—J. Gray—*Stove.*

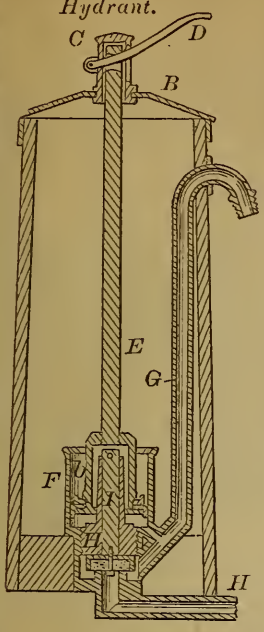




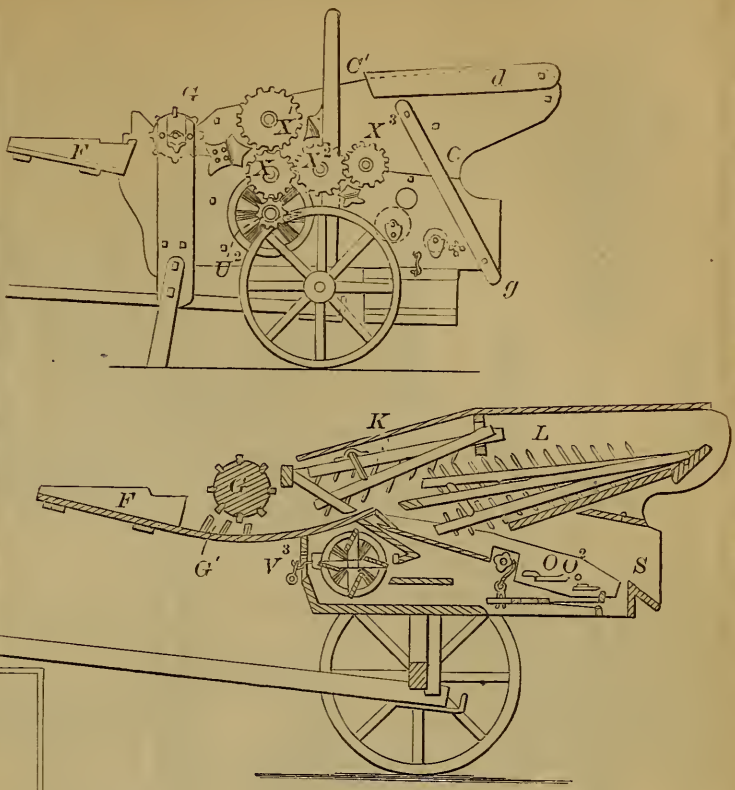




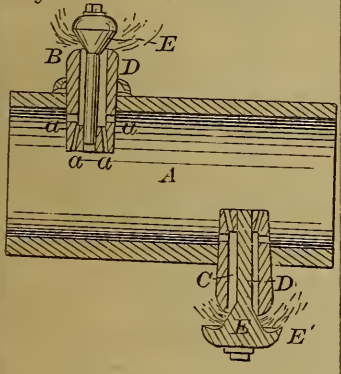
84104—C. E. Frazier—*Hydrant.*

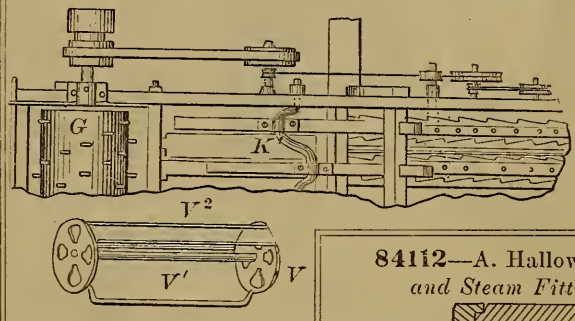


84105—P. & D. Geiser—*Threshing Machine.*

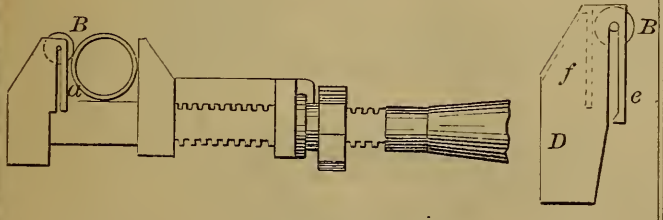


84110—J. Gray—*Hydro-Carbon Burner.*

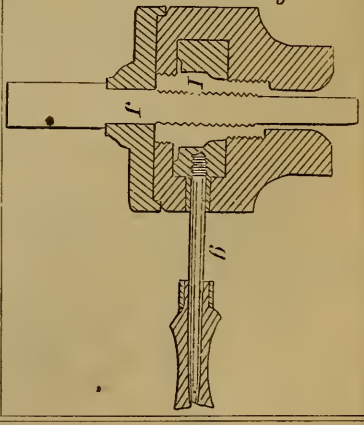




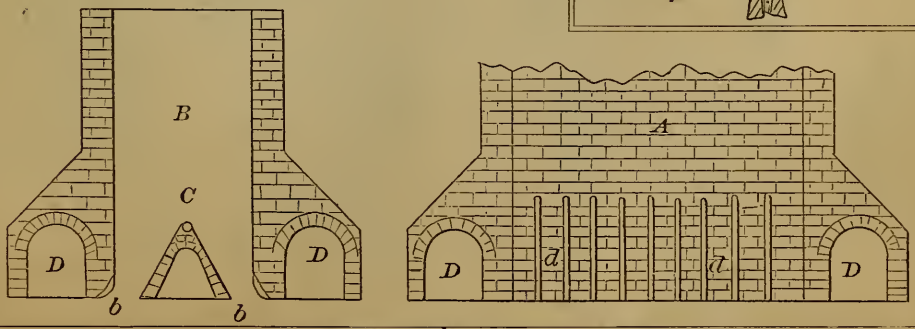
84111—A C Greth—*Wrench.*



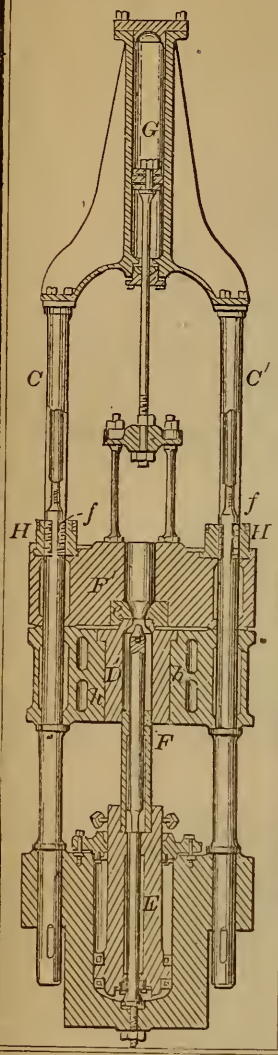
84112—A. Hallowell—*Gas and Steam Fitting.*



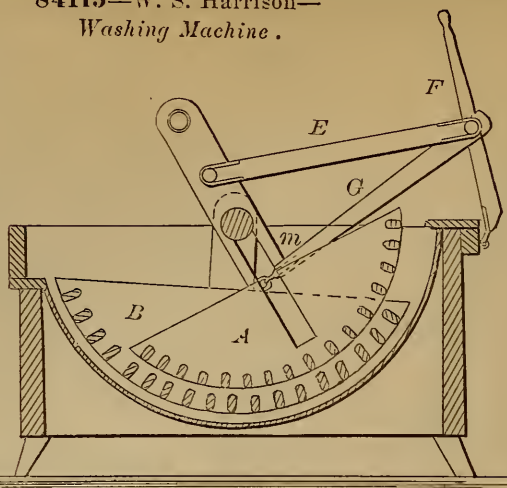
84113—A. Hamar—*Roasting Iron Ores by Waste Gases.*



84114—A. Hamon—*For Forming Tin-Lined Lead Pipe.*

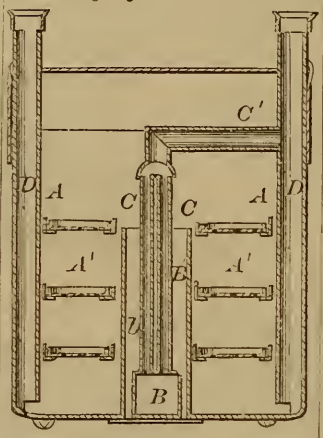


84115—W. S. Harrison—*Washing Machine.*

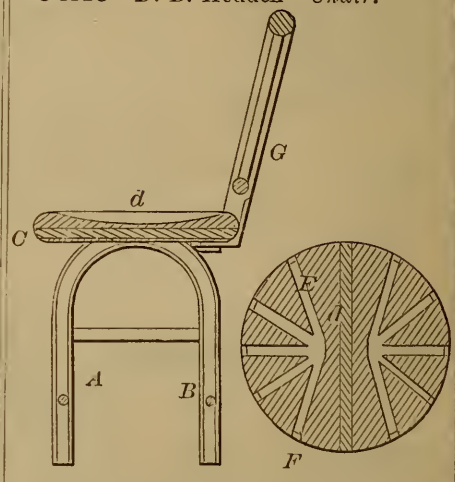


84116—H. Hauer—*Harness.*

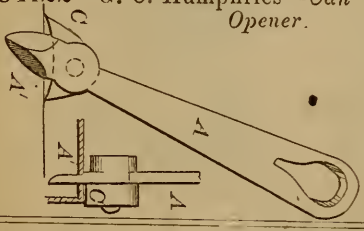
84117—B. R. Hawley—*Drying Kiln.*



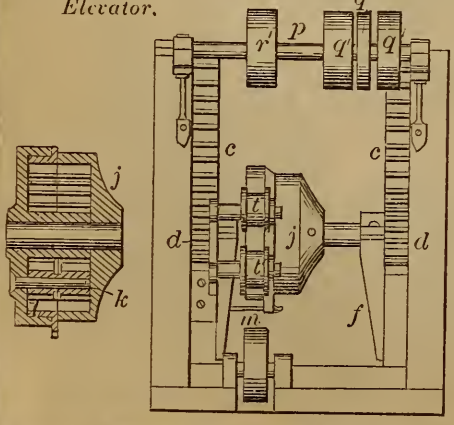
84118—D. B. Hedden—*Chair.*

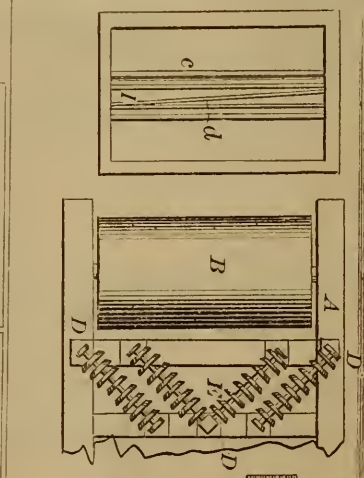


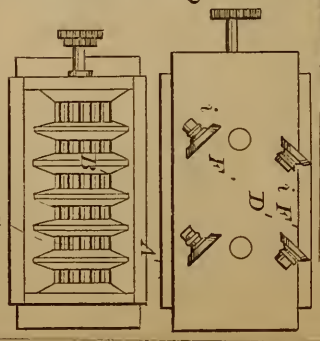
84122—G. C. Humphries—*Can Opener.*



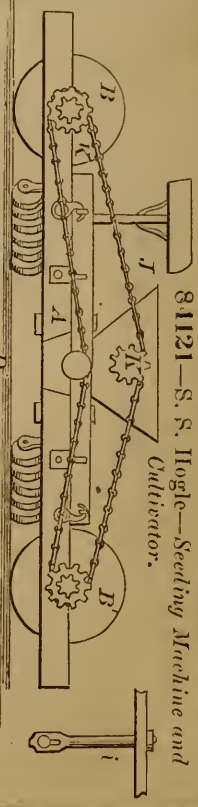
84123—D. Hussey—*Differential Gear Elevator.*



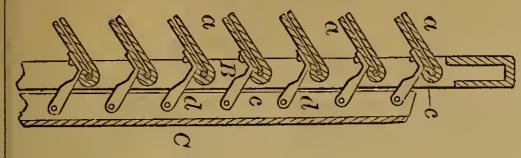


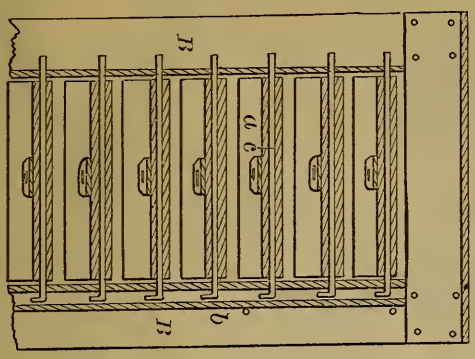


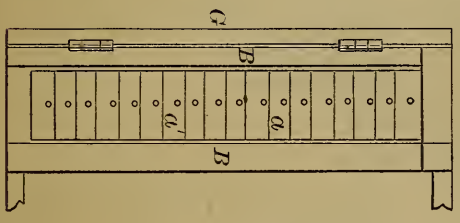
84121—S. S. Hogle—*Seeding Machine and Cultivator.*



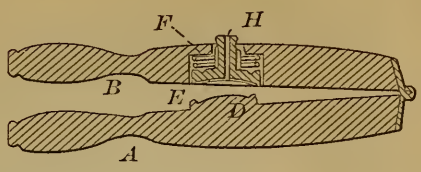
84124—B. A. Jenkins—*Iron Window Shutter.*



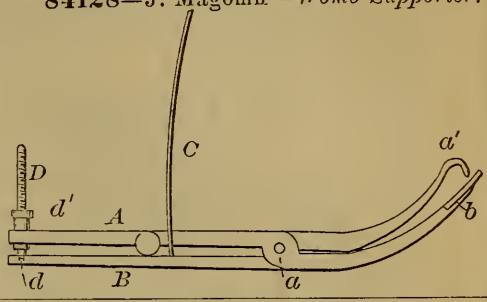




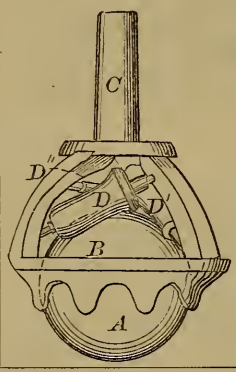
84125—J. Klepzig—*Lemon Squeezer.*



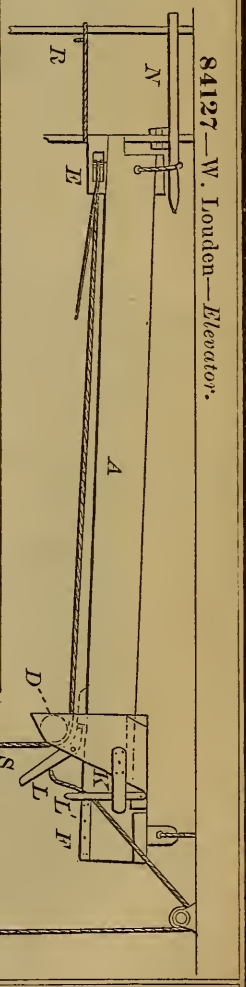
84128—J. Magoffin—*Womb Supporter.*



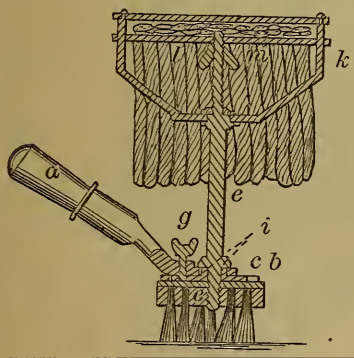
84126—C. Lewando—*Caster.*



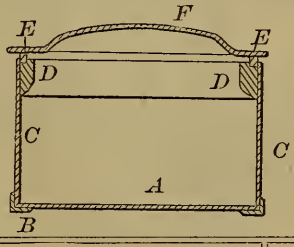
84127—W. Louden—*Elevator.*



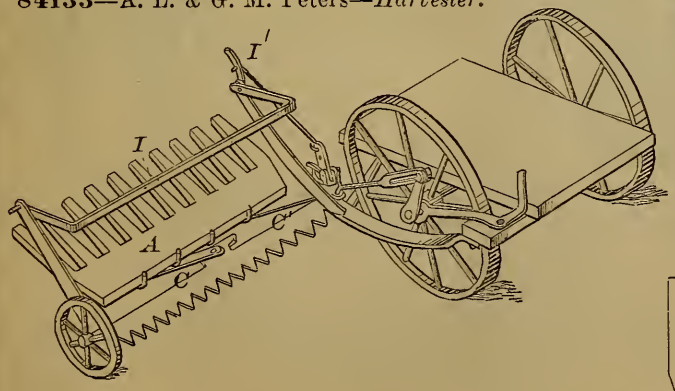
84129—J. F. Mason—*Scrubbing Brush and Mop.*

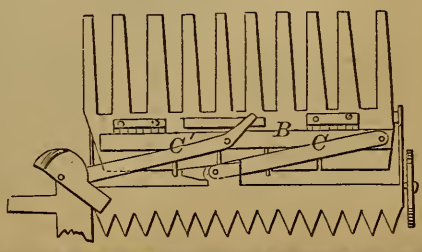


84130—S. Merrick—*Coffin.*

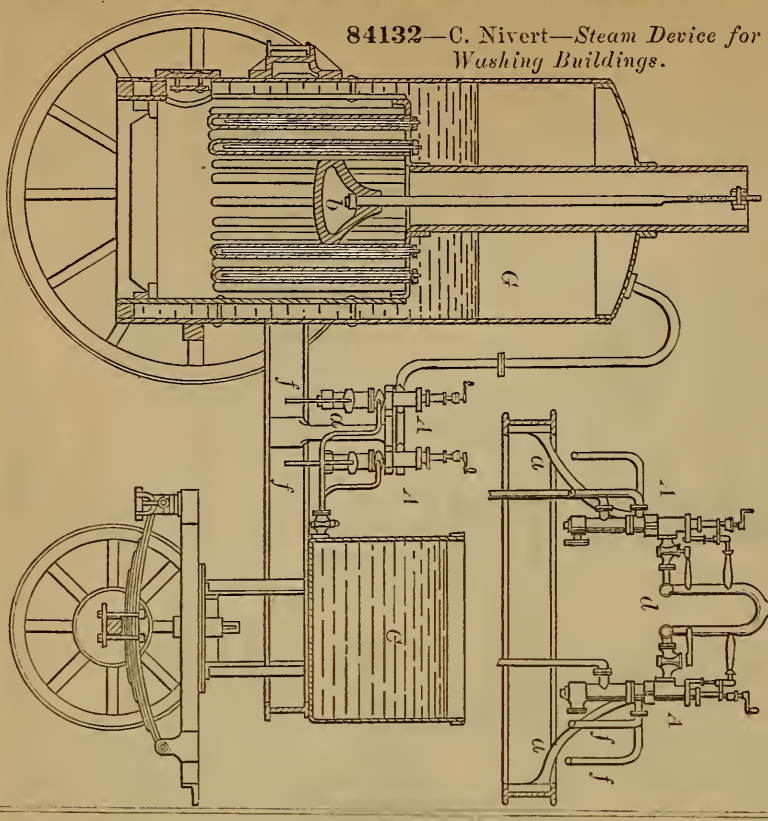


84133—A. L. & G. M. Peters—*Harvester.*

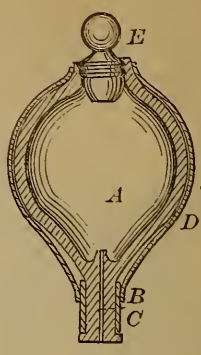




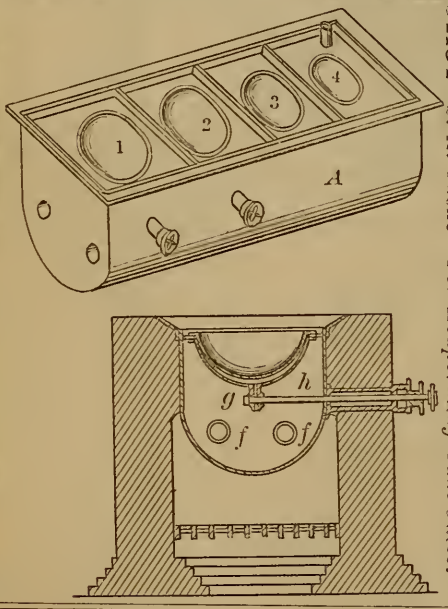
84132—C. Nivert—*Steam Device for Washing Buildings.*



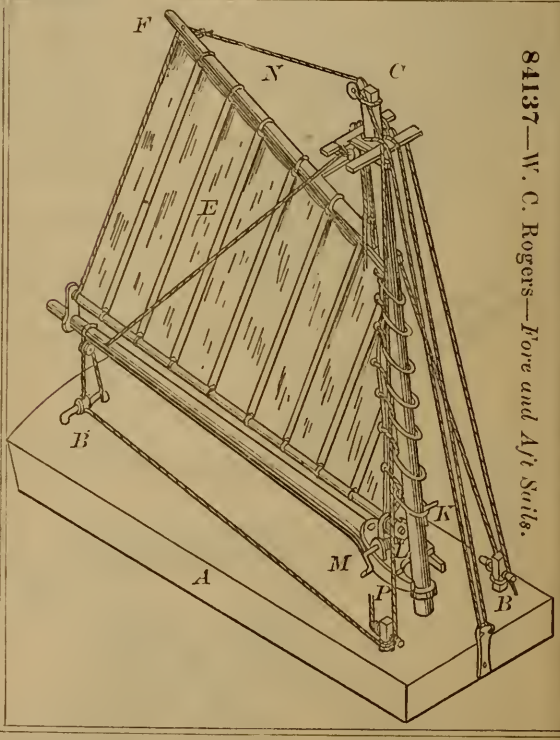
84135—W. M. Rennyson—*Lubricator.*



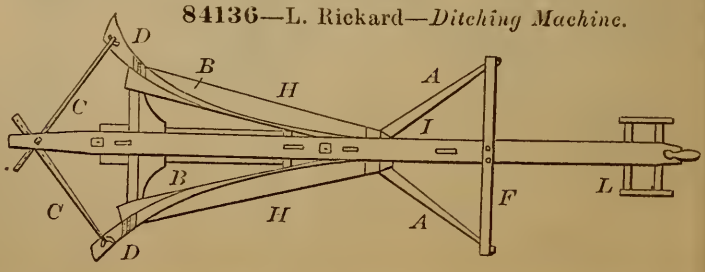
84134—S. A. Puche—*For Evaporating Cane Juice.*



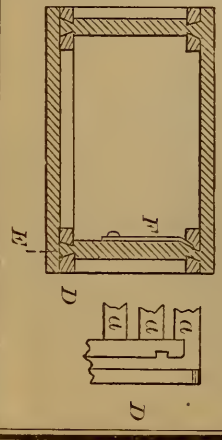
84137—W. C. Rogers—*Fore and Aft Sails.*



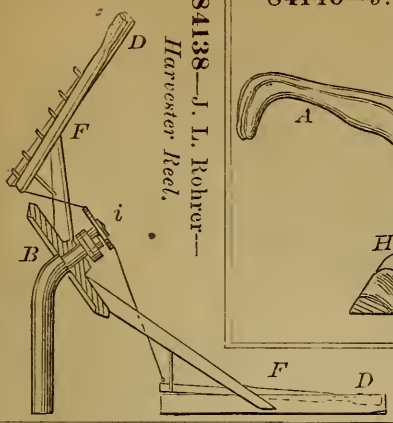
84136—L. Rickard—*Ditching Machine.*



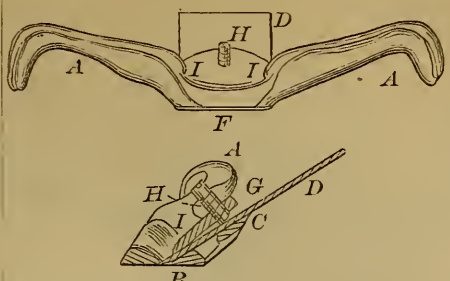
84139—J. S. Shields—*Fruit Box.*



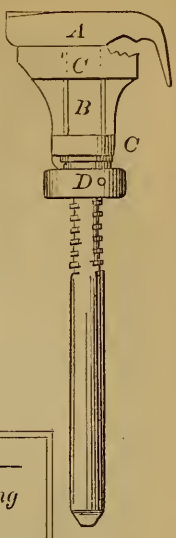
84138—J. L. Rohrer—*Harvester Reel.*



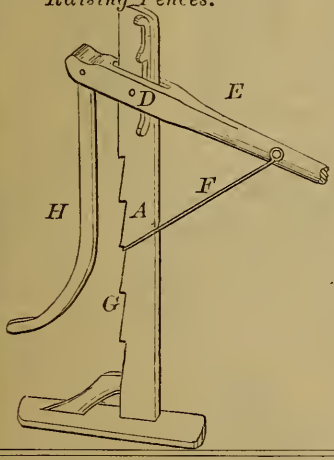
84140—J. Y. Simons—*Shave.*

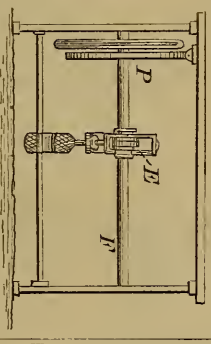


84142—W. S. Smoot—*Wrench.*

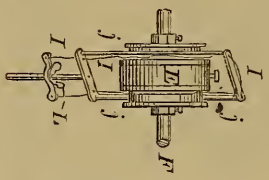


84141—T. J. Smith—*For Raising Fences.*

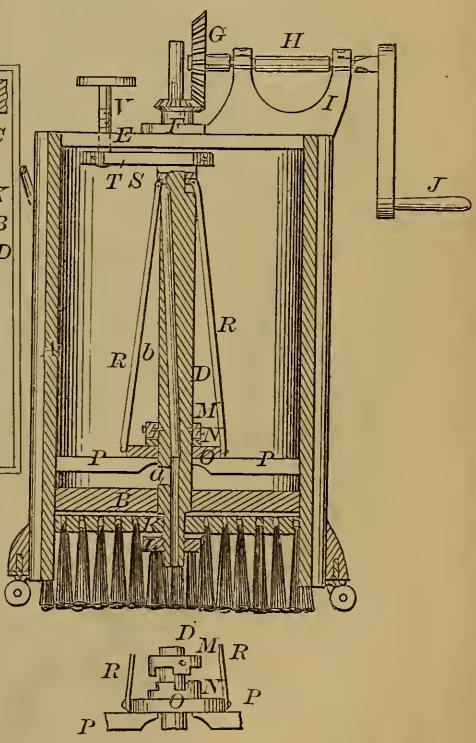




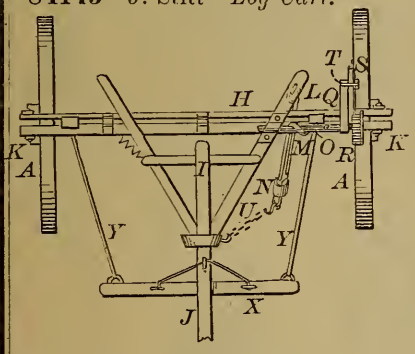
84144—G. Stackpole—*Lever Power for Sewing Machines.*

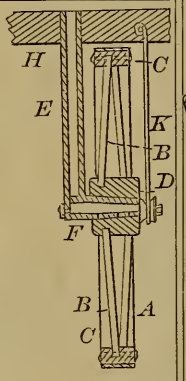


84146—W. E. Stoddard—*Scrubbing Machine.*

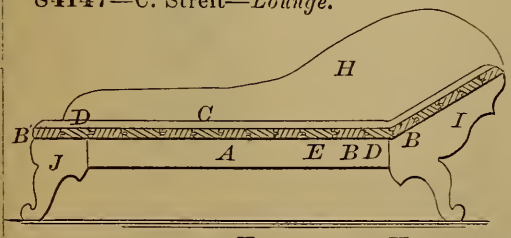


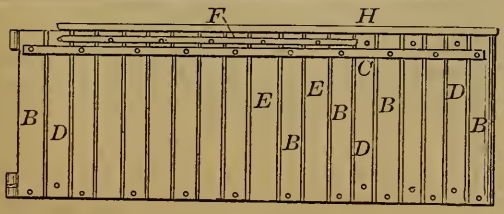
84145—J. Stitt—*Log Cart.*



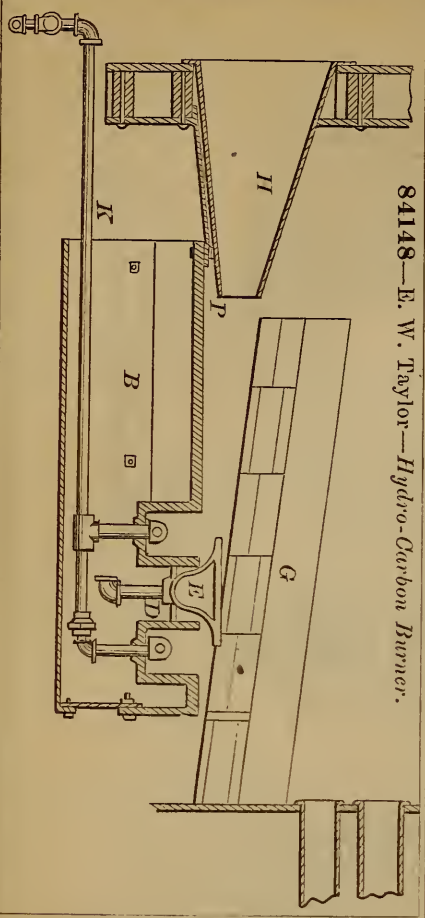


84147—C. Streit—*Lounge.*

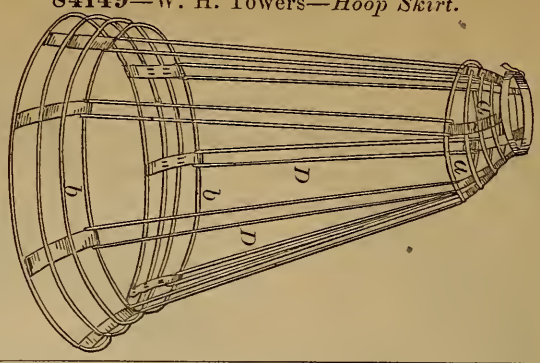




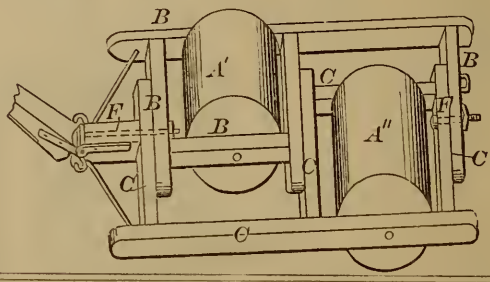
84148—E. W. Taylor—*Hydro-Carbon Burner.*



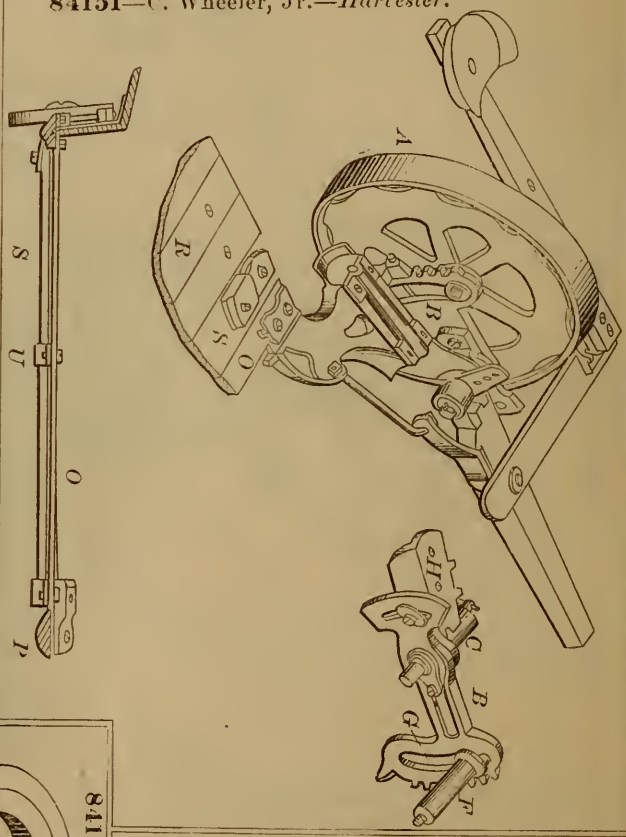
84149—W. H. Towers—*Hoop Skirt.*



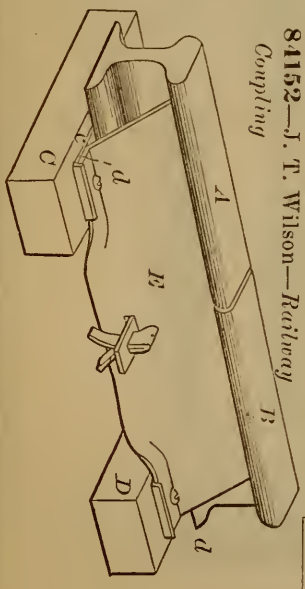
84150—W. Westfall—*Field Roller.*



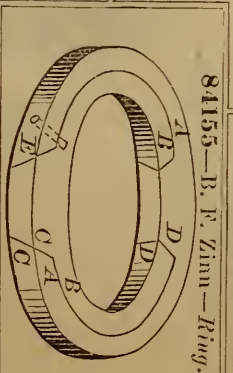
84151—C. Wheeler, Jr.—*Harvester.*

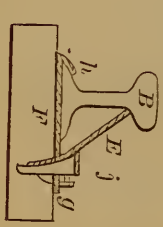


84152—J. T. Wilson—*Railway Coupling*

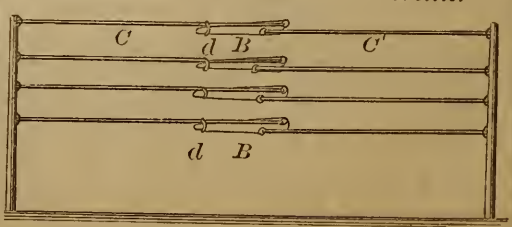


84153—B. F. Zinn—*Ring.*

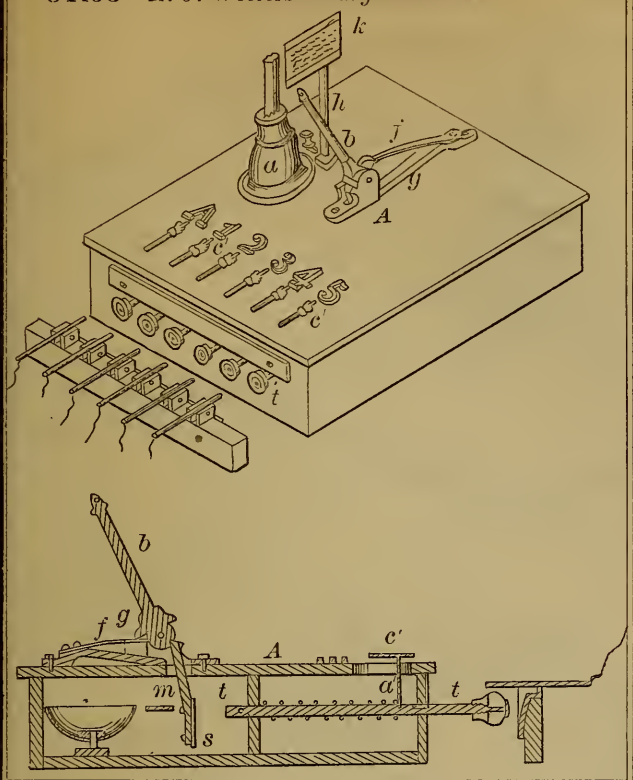




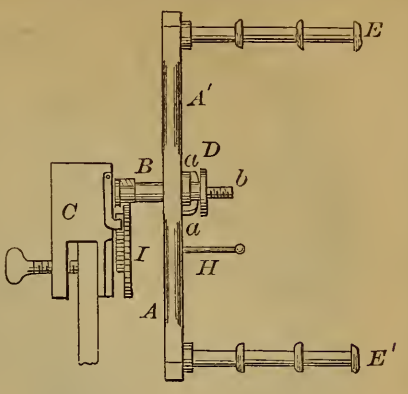
84154—T. G. Yeomans—*Vine Trellis.*

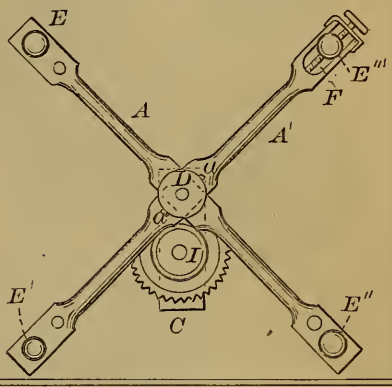


84153—H. J. Wolters—*Burglar Alarm.*

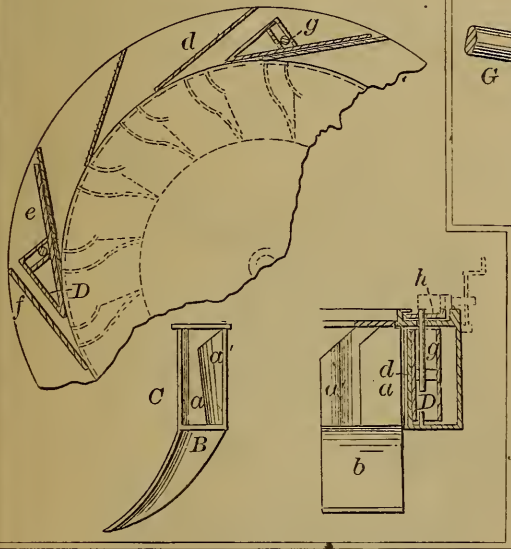


84156—E. Baker—*Reel.*

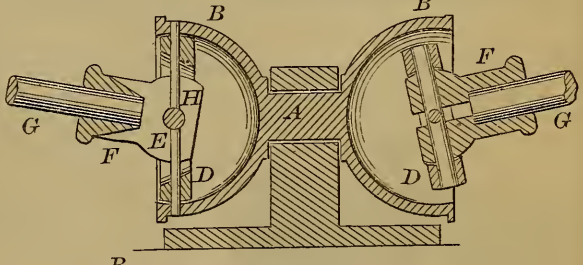


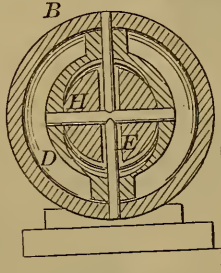


84158—V. M. Baker—*Water Wheel.*

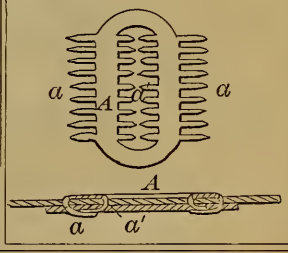


84161—A. Bigelow—*Shaft Coupling.*

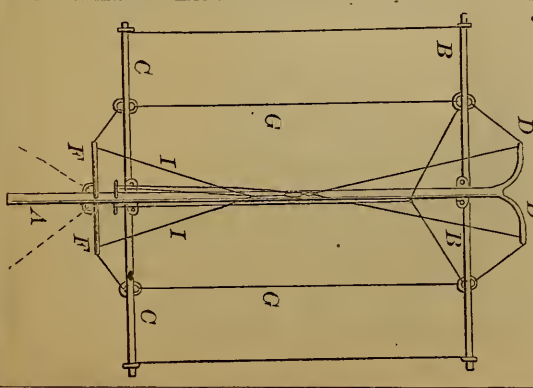




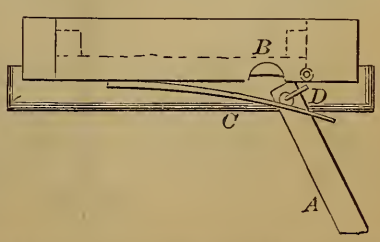
84157—P. H. Baker—*Fastening Straps to Boots.*



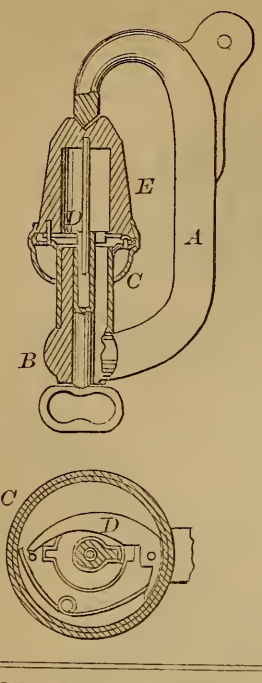
84160—M. C. Battey—*Awning for Horse Cars.*



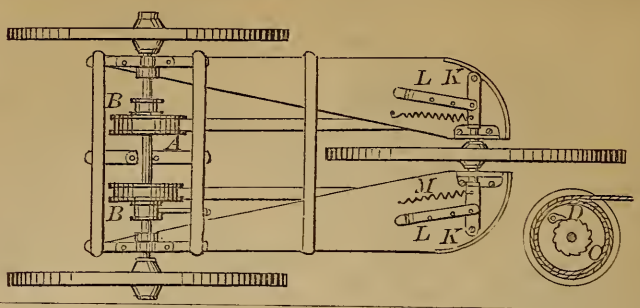
84159—W. S. Barlow—*Door Spring.*



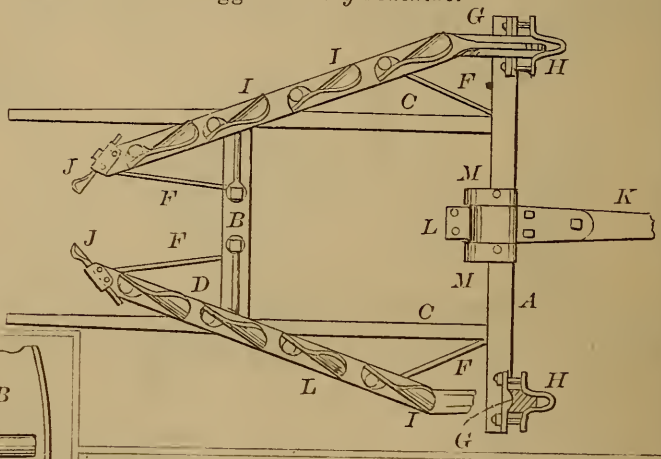
84162—A. S. Blake—*Padlock.*



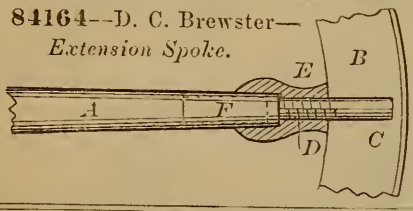
84163—E. K. W. Blake—*Velocipede.*



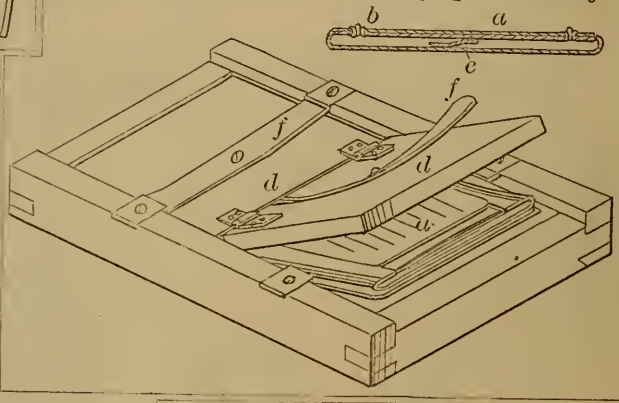
84165—H. C. Briggs—*Hoeing Machine.*



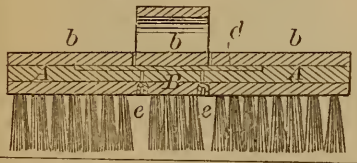
84164—D. C. Brewster—*Extension Spoke.*



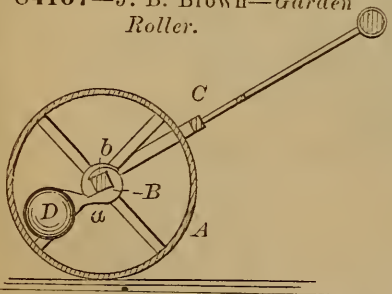
84168—J. Buchtel—*For Photographic Printing.*



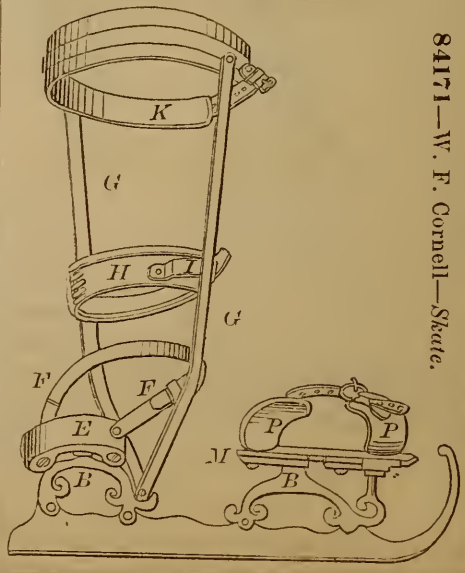
84166—A. W. Brown—*Brush.*



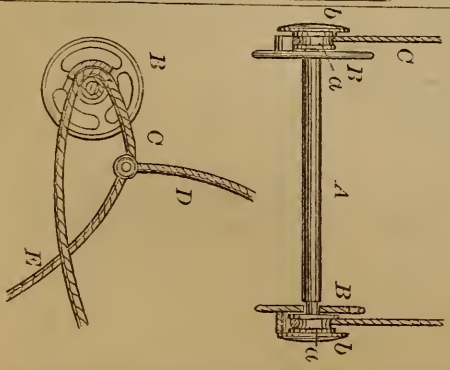
84167—J. B. Brown—*Garden Roller.*



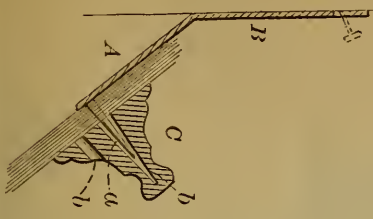
84171—W. F. Cornell—*Skate.*



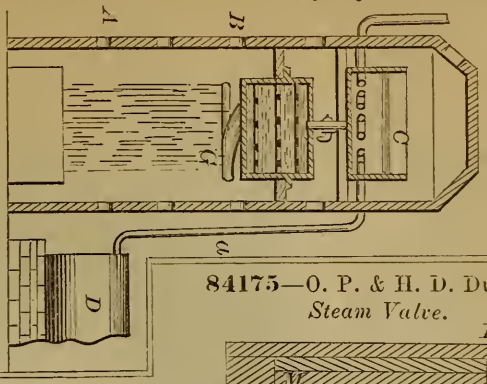
84170—W. F. Clark—*Bridle.*



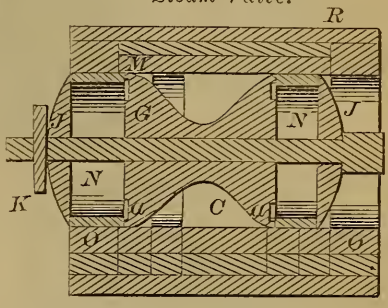
84172—E. H. Craige—*Paper File.*



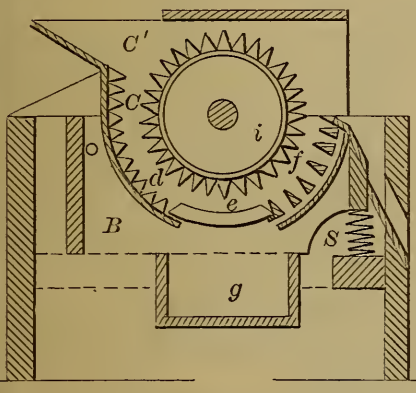
84174—D. Duduit—*For Ageing and Rectifying Copal Varnish.*

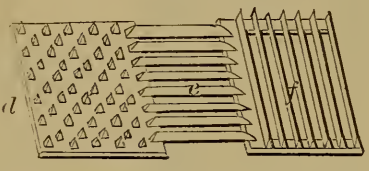


84175—O. P. & H. D. Dunbar—*Steam Valve.*

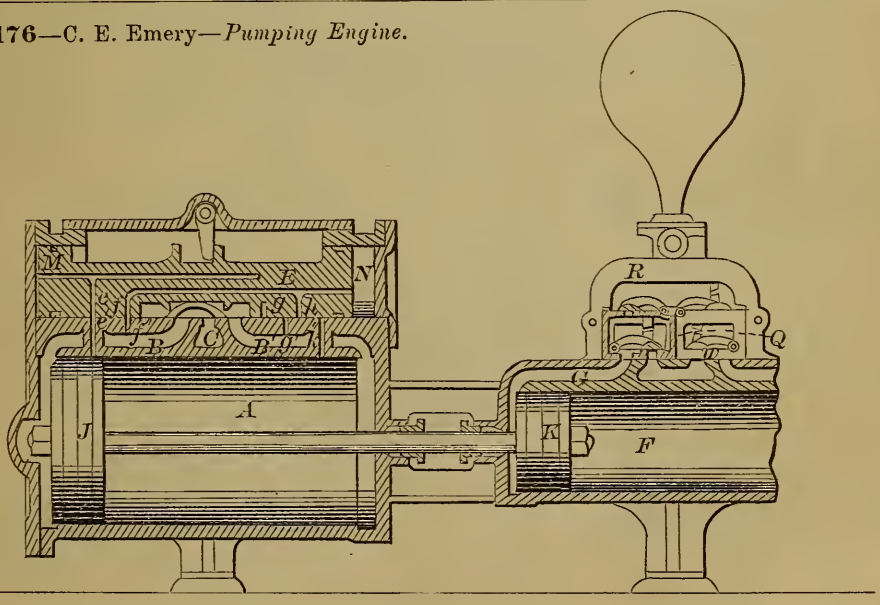


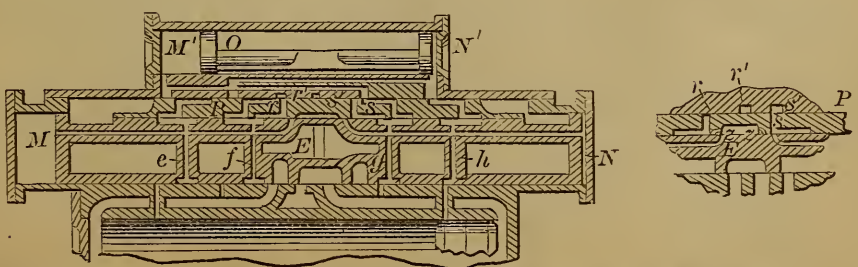
84173—E. Doud—*Corn Sheller.*



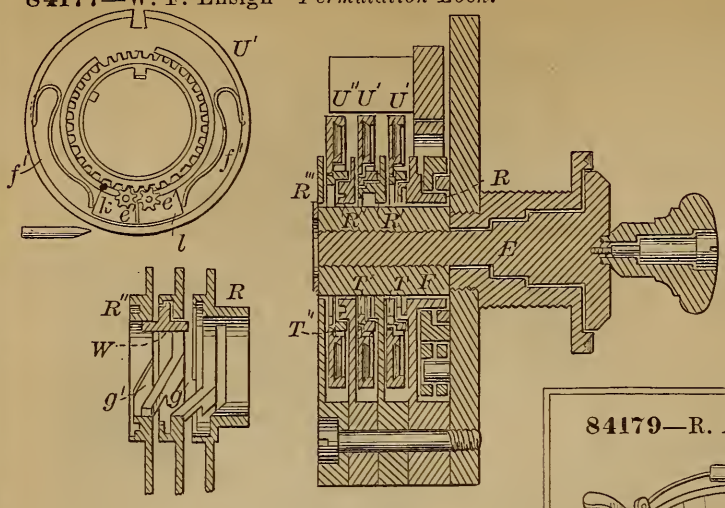


84176—C. E. Emery—*Pumping Engine.*

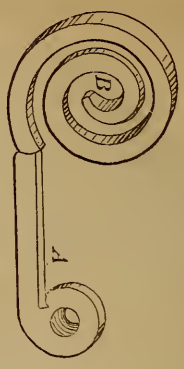




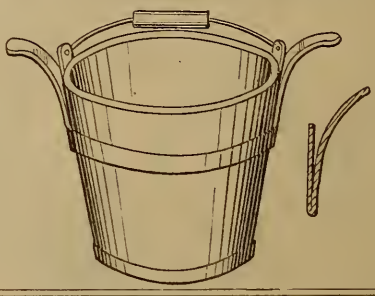
84177—W. F. Ensign—*Permutation Lock.*

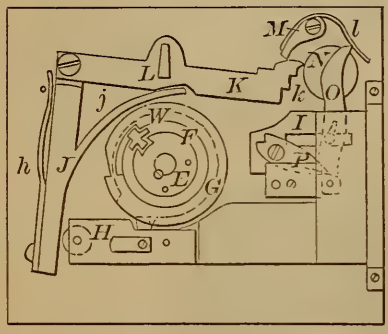


84181—E. Gibbs—*For Bending Scrolls.*

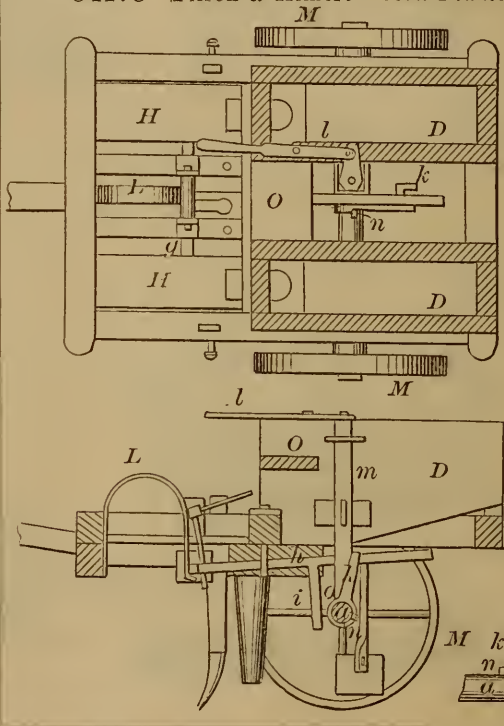


84179—R. A. Fish—*Milking Pail.*

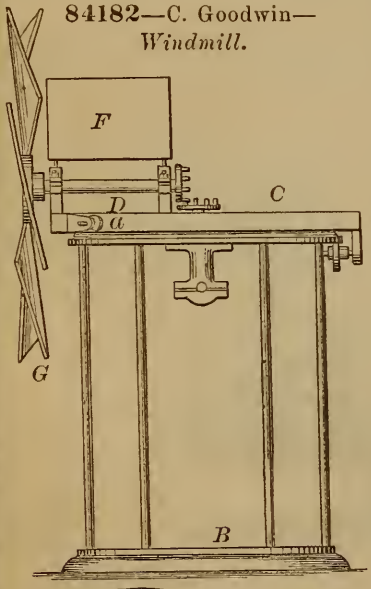


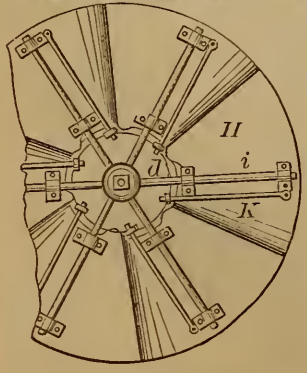


84178—Filson & Kimert—*Corn Planter.*

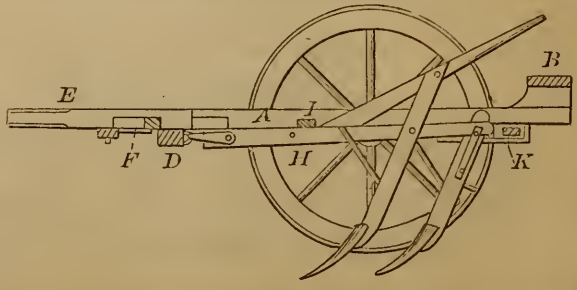


84182—C. Goodwin—*Windmill.*

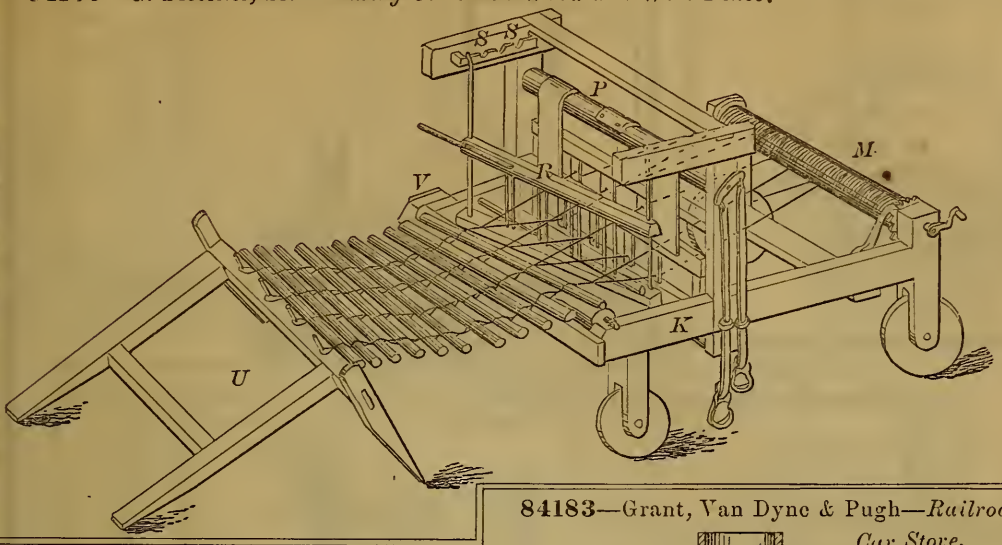




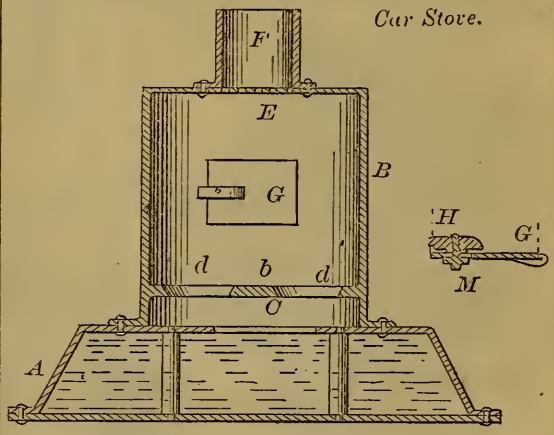
84184—A. A. Harmon—*Cultivator.*



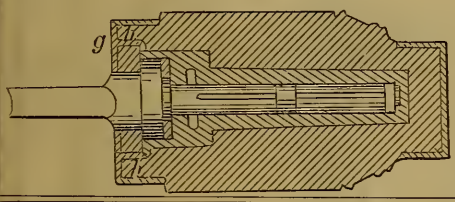
84180—G. Fletcher, Sr.—*Making Combined Wood and Wire Fence.*



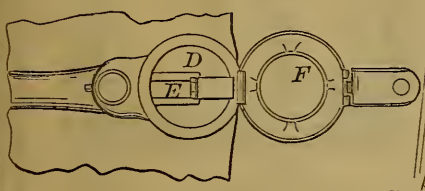
84183—Grant, Van Dyne & Pugh—*Railroad Car Stove.*

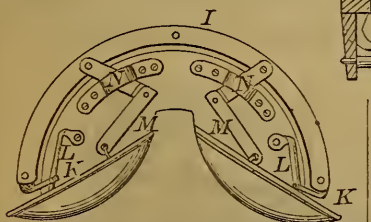


84185—E. P. Haskell—*Axle Box.*

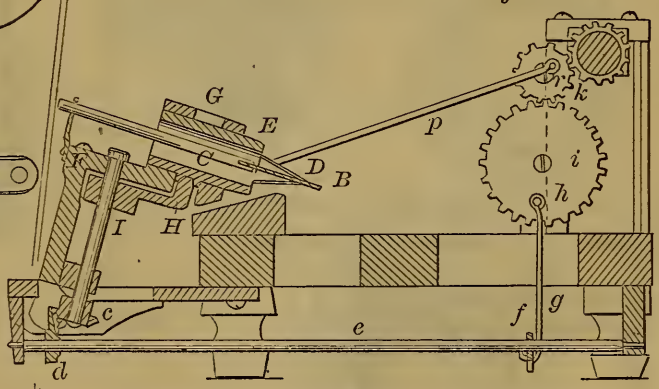


84186—G. H. Hayden—*Saddle.*

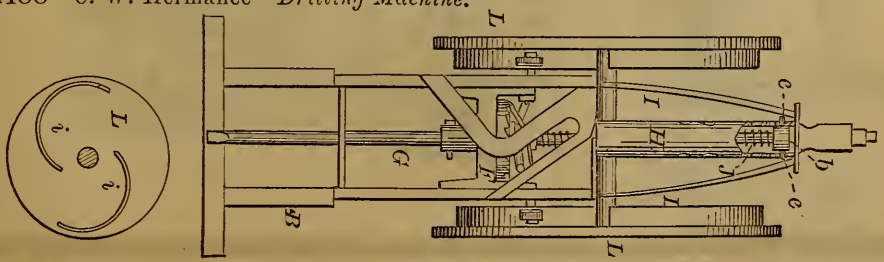




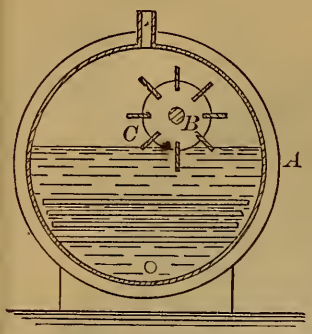
84189—C. D. Hunt—*Nail Cutting Machine.*



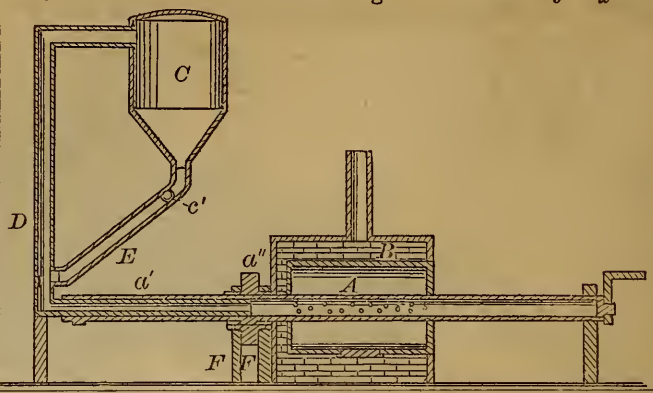
84188—C. W. Hermance—*Drilling Machine.*



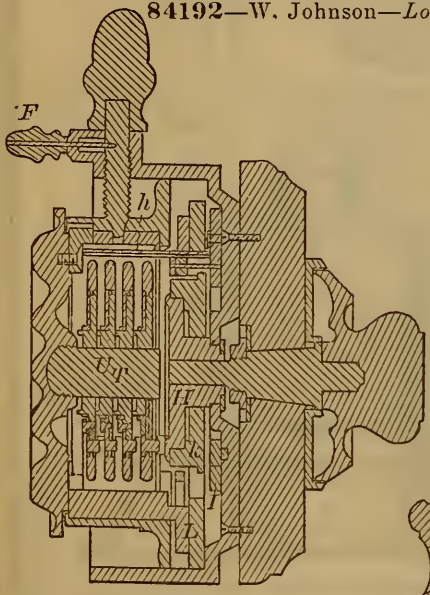
84190—S. Hosmer—*Tanning Apparatus.*

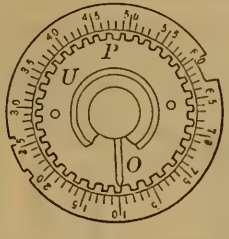


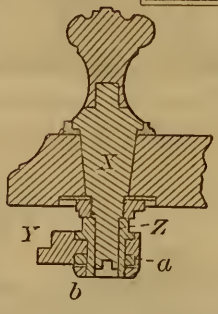
84193—Johnston & Flansburgh—*For Roasting Coffee.*



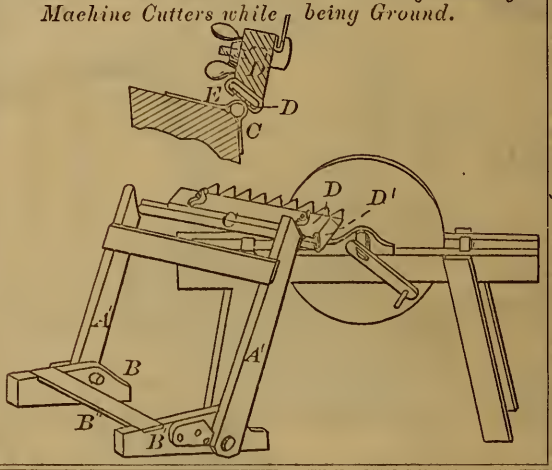
84192—W. Johnson—*Lock.*



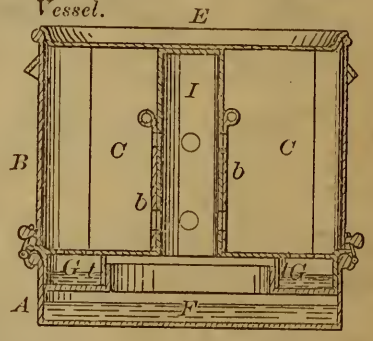




84191—D. W. Jameson—*For Holding Mowing Machine Cutters while being Ground.*

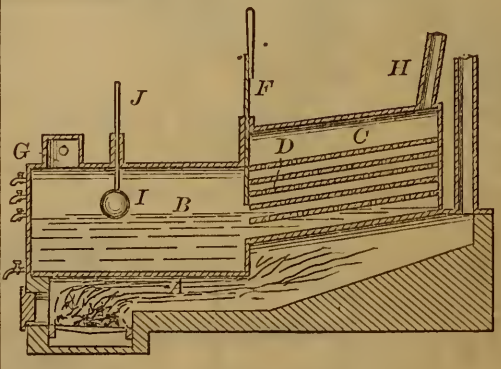


84194—A. C. Kasson—*Culinary Vessel.*

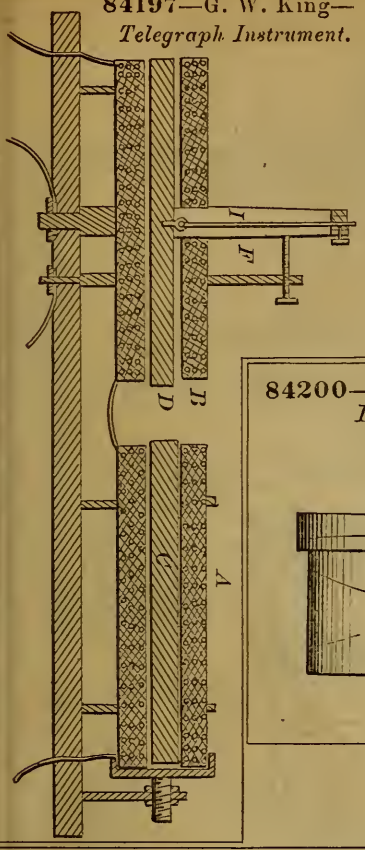


84196—T. D. Kellogg—*Refrigerator.*

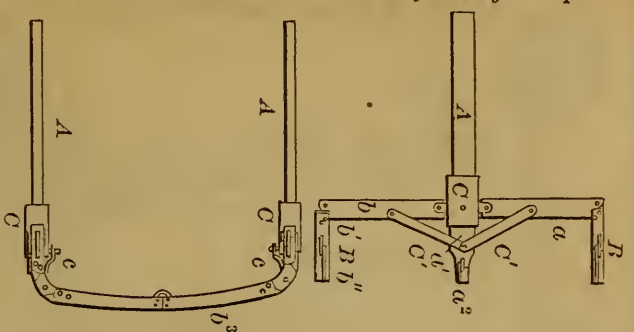
84195—E. G. Kelley—*Petroleum Still.*



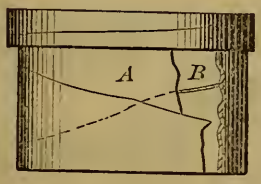
84197—G. W. King—*Telegraph Instrument.*



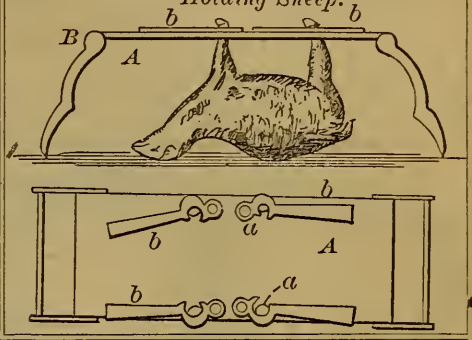
84199—La Halt, Listeman & Hadley—*Wagon Top Bow.*



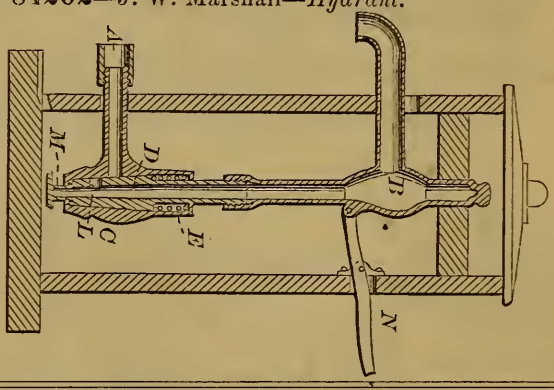
84200—J. J. Leighton—*Box.*



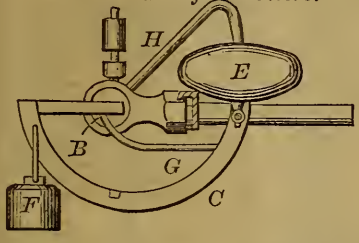
84198—G. D. A. Krigbaum—*For Holding Sheep.*



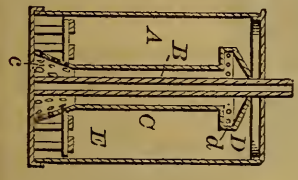
84202—J. W. Marshall—*Hydrant.*



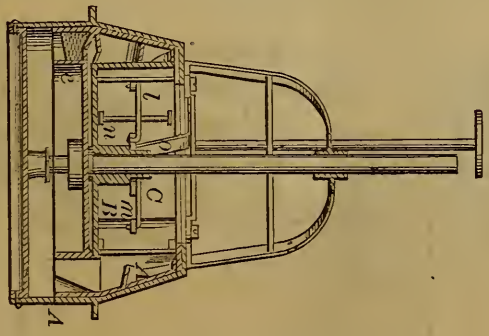
84201—E. W. Mandeville—*Low Water Alarm for Boilers.*

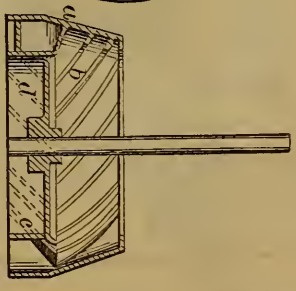


84204—A. Michel—*Wash Boiler.*

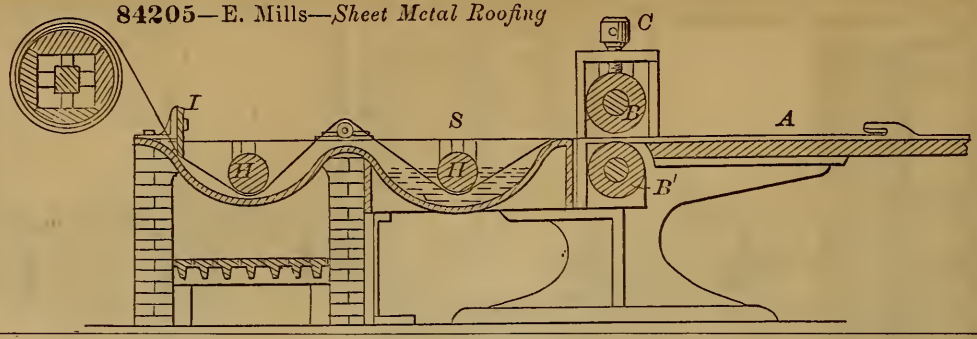


84203—A. M. Maynard—*Water Wheel.*

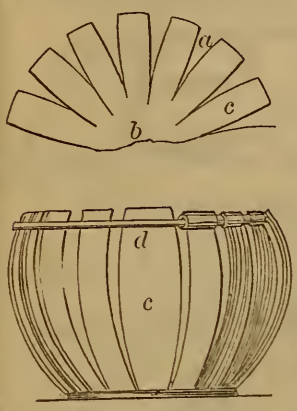




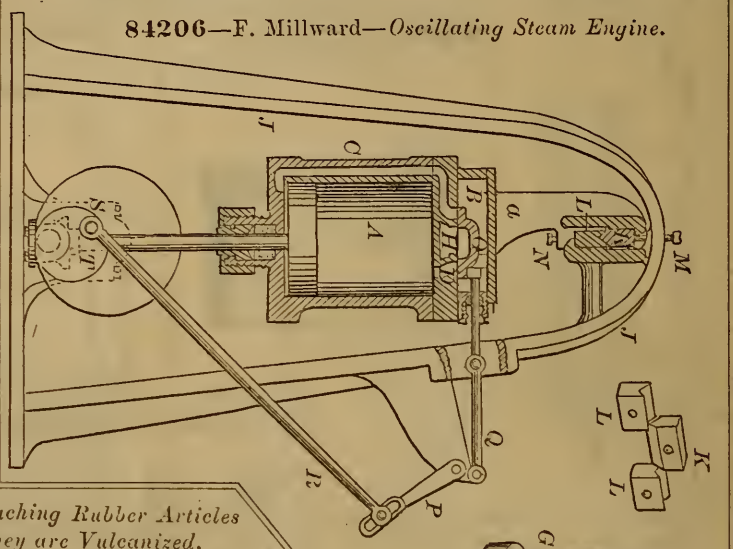
84205—E. Mills—*Sheet Metal Roofing*



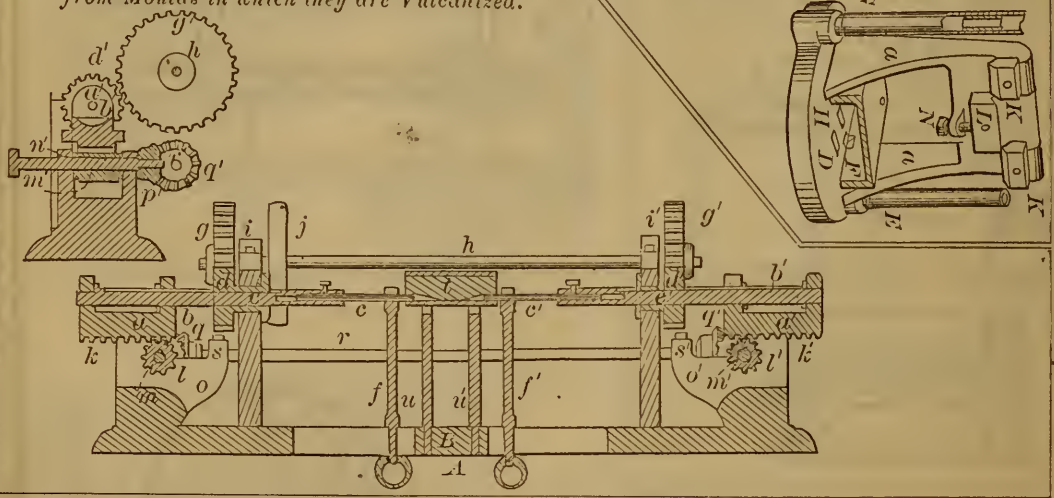
84207—C. Moore—*Fruit Basket.*



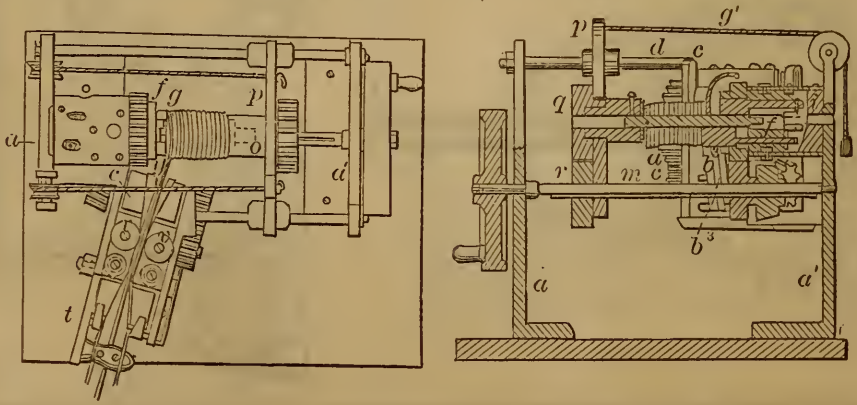
84206—F. Millward—*Oscillating Steam Engine.*



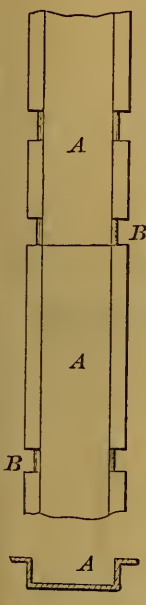
84209—J. Moulton—*Detaching Rubber Articles from Moulds in which they are Vulcanized.*



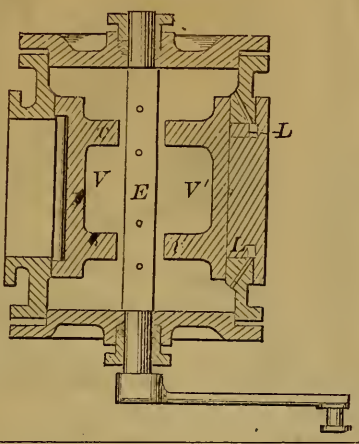
84208—J. Moulton—*Manufacture of Elastic Rolls and Tubes*



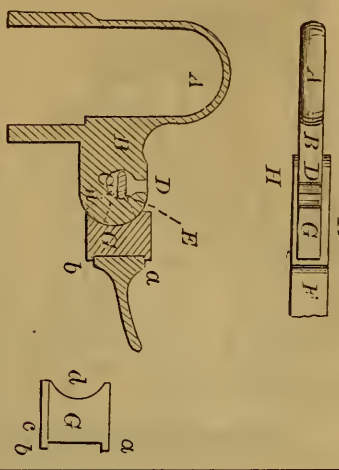
84210—D. Munson—*Lightning Rod.*



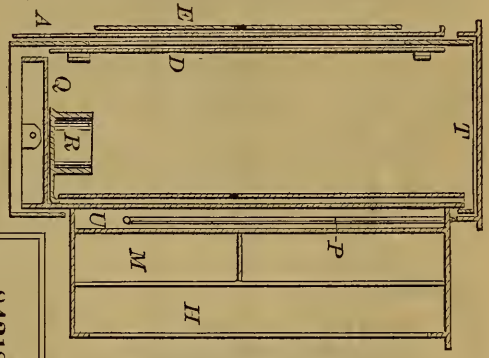
84211—F. S. Pease—*Steam Valve.*



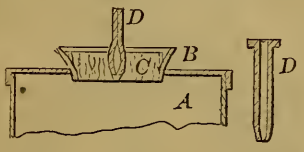
84212—L. Pentz—*Thill Coupling.*



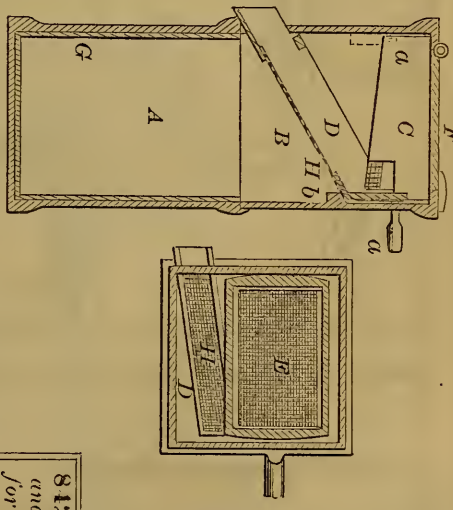
84213—G. W. Putnam—*Pocket Lantern.*



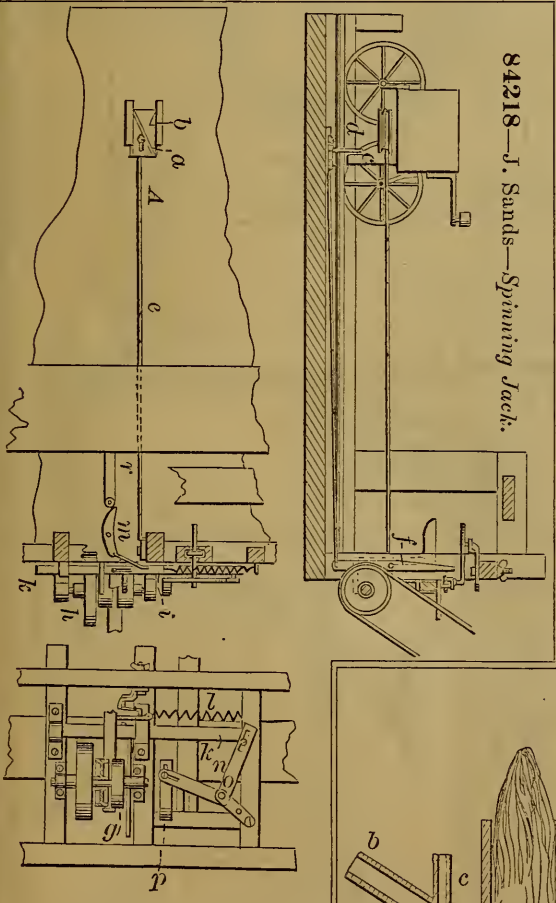
84214—N. Raymer—*Fruit Jar.*



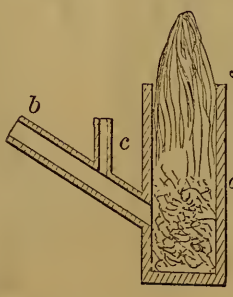
84216—C. K. Rice—*Coal Sifter.*



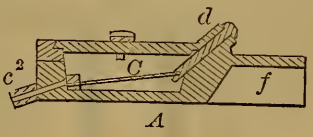
84218—J. Sands—*Spinning Jack.*



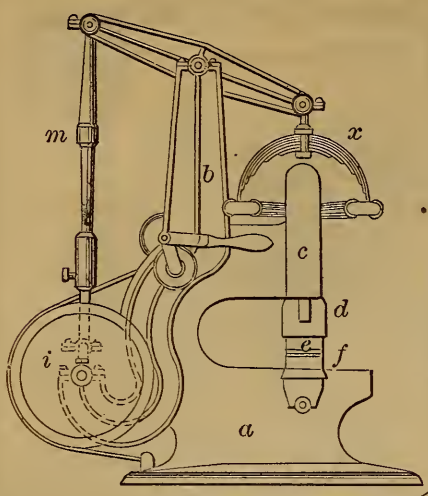
84220—T. Shaw—*Generating and Applying Carbonic Oxide for Treating Metals.*



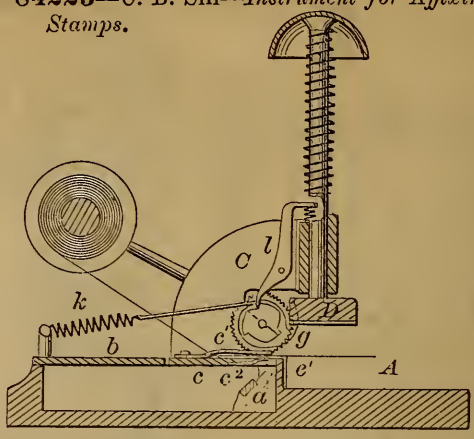
84215—J. W. Rhoades—*Oil Box.*



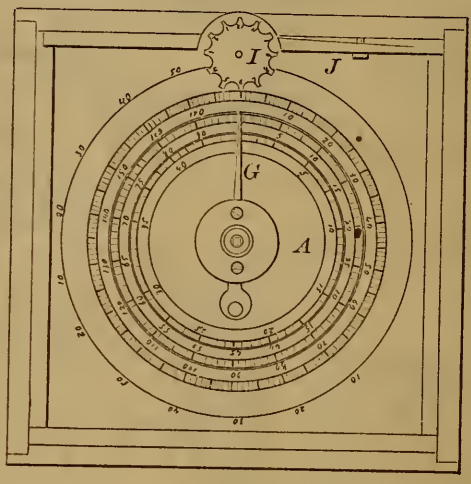
84221—T. Shaw—*Power Hammer.*

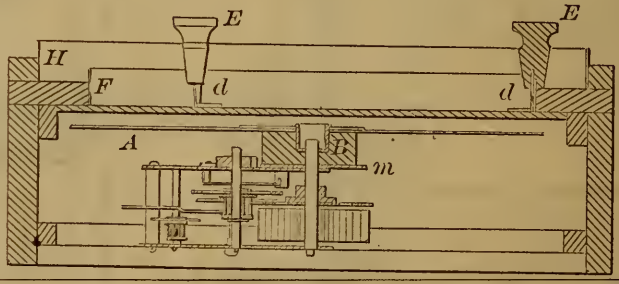


84223—C. B. Sill—*Instrument for Affixing Stamps.*

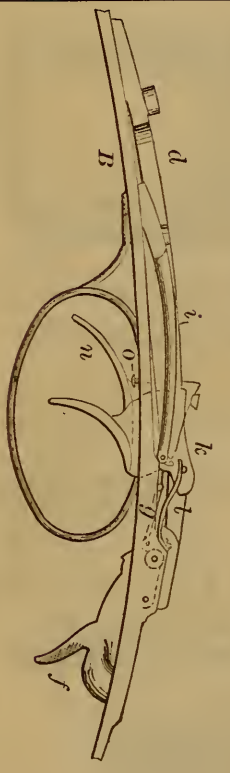


84226—K. Smith—*Register for Time and Price.*

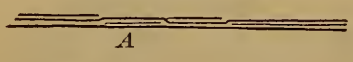




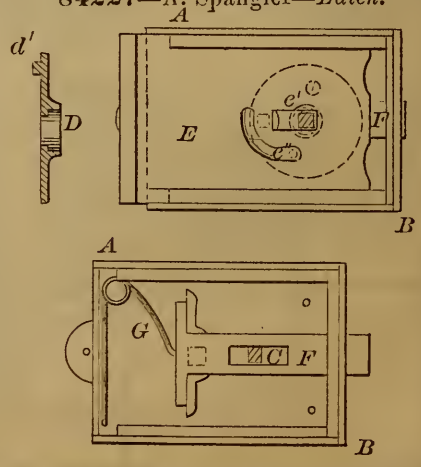
84224—C. Slotterbek—*Fire Arm.*



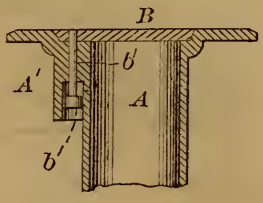
84225—H. F. Smart—*For Printing in Colors.*



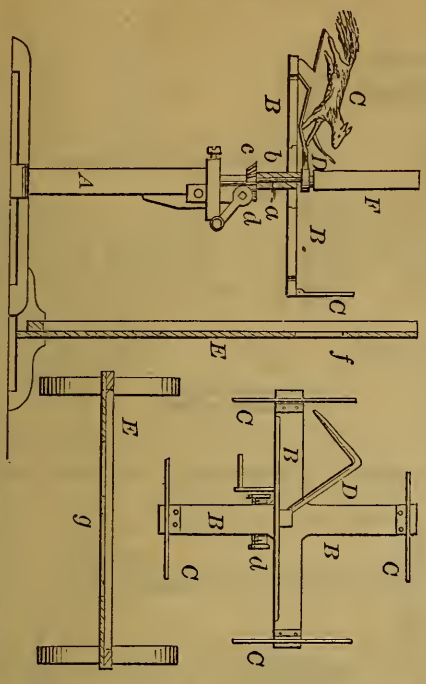
84227—A. Spangler—*Latch.*



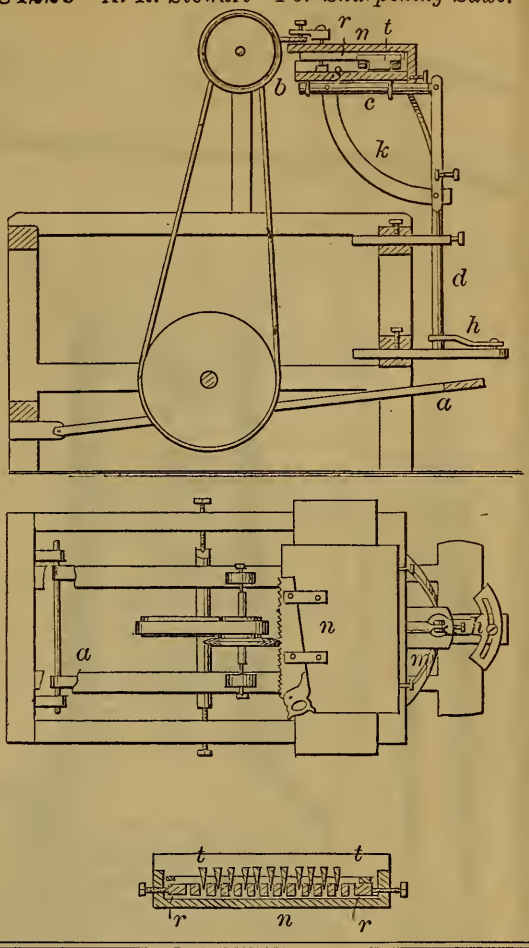
84222—F. Shickle—*Hydrant and Gas Pipe Stop.*



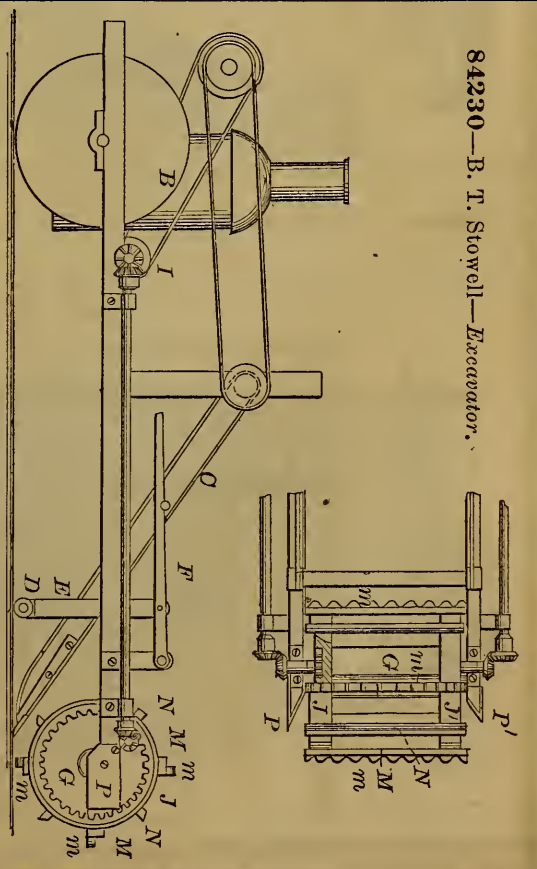
84228—W. Stein—*Target.*



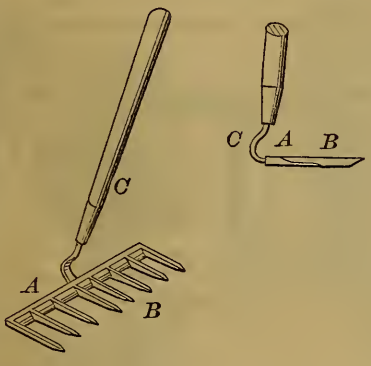
84229—A. R. Stewart—*For Sharpening Saws.*



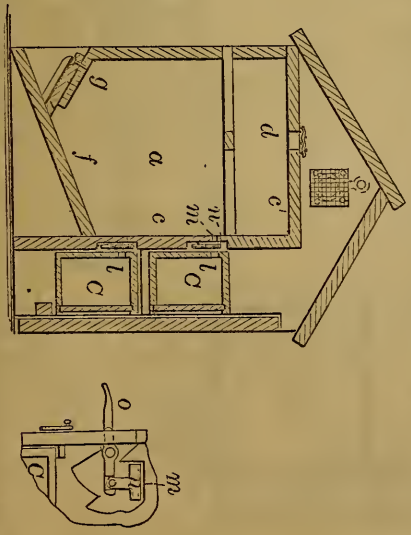
84230—B. T. Stowell—*Excavator.*



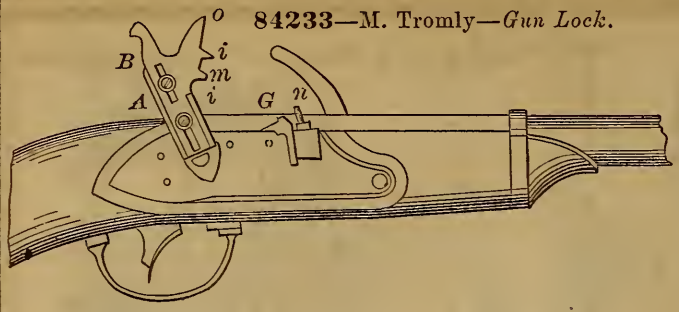
84231—H. Thacker—*Rake and Hoe.*



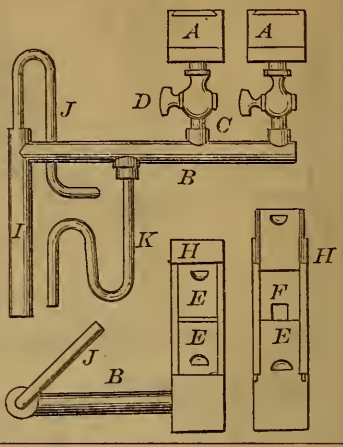
84232—J. H. Thurston—*Beehive.*



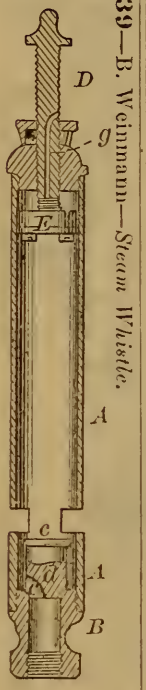
84233—M. Tromly—*Gun Lock.*



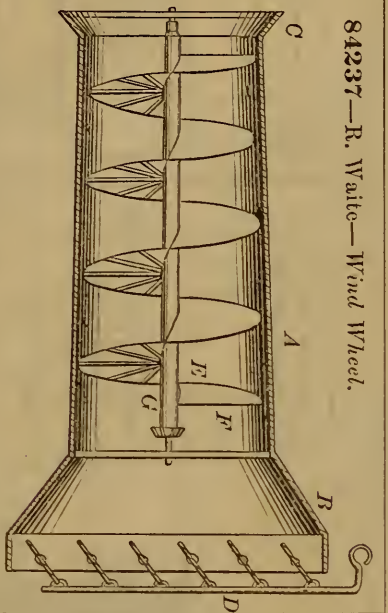
84235—J. Viney—*Paper Making Machine.*



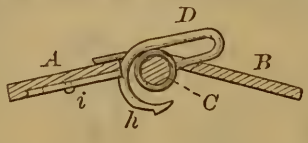
84239—B. Weinmann—*Steam Whistle.*



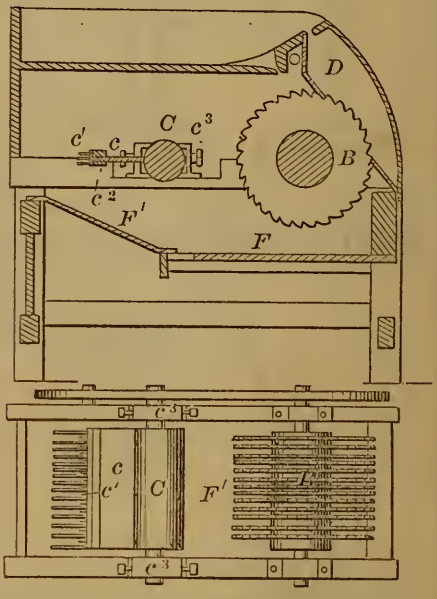
84237—R. Waite—*Wind Wheel.*



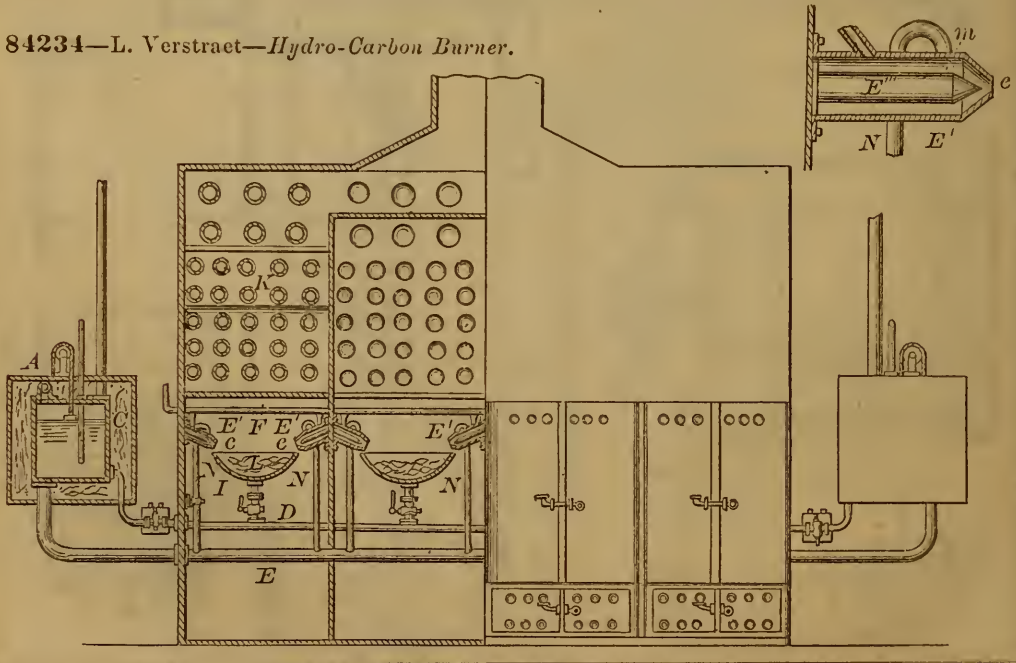
84240—W. Wells—*Spring But.*



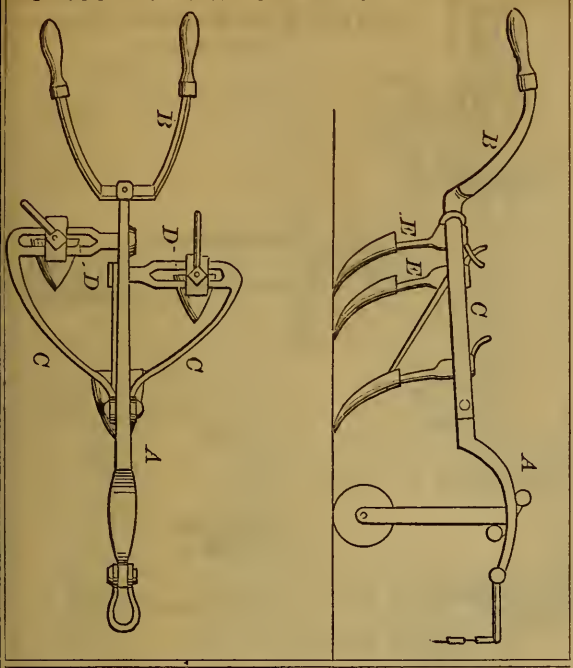
84236—Wardsworth & Semple—*For Picking Wool.*



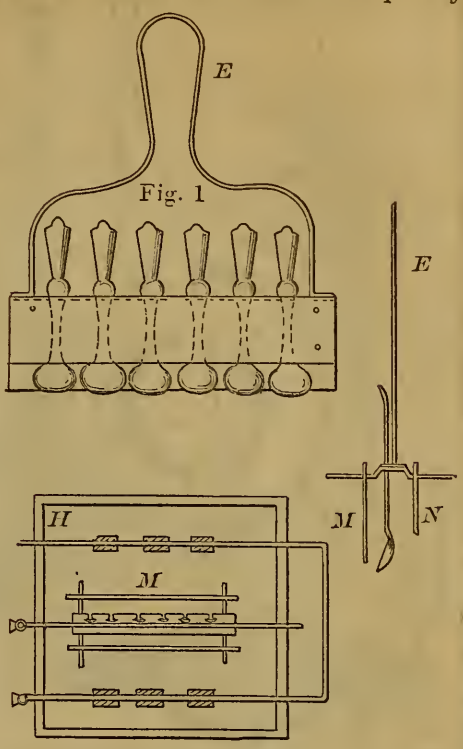
84234—L. Verstraet—*Hydro-Carbon Burner.*



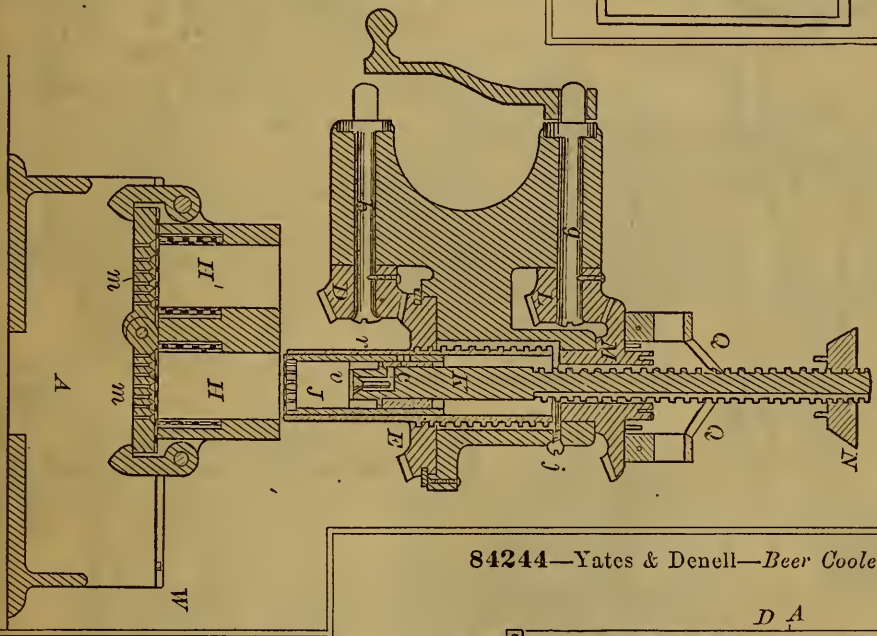
84238—T. Waite—*Cultivator.*



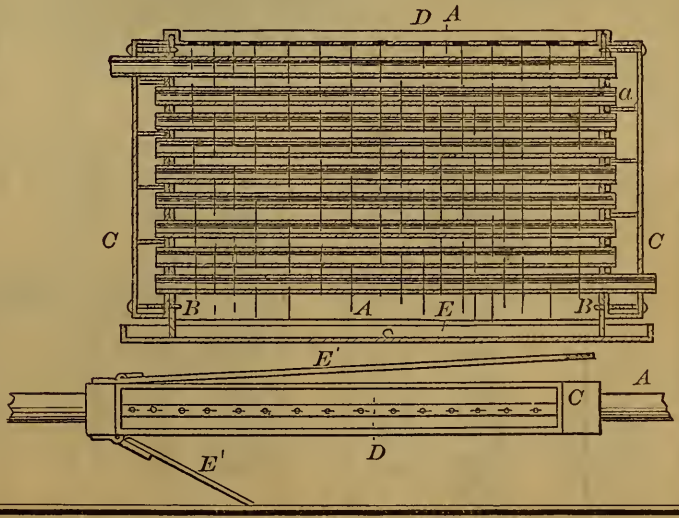
84243—J. P. Woodworth—*Electroplating.*



84246—R. Smith—*Manufacture of Paper Boxes.*

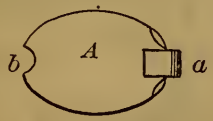


84244—Yates & Denell—*Beer Cooler.*

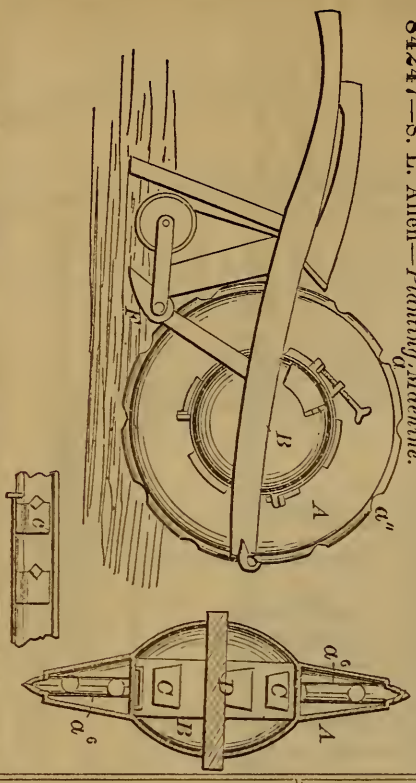


84245—A. Destouy—*Boots and Shoes.*

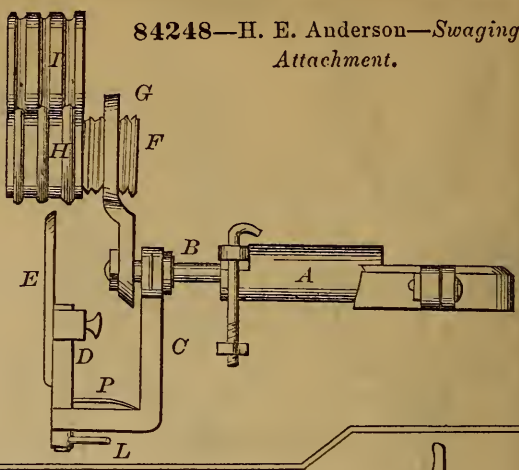
84242—J. Winkler—*Froth Arrester for Beer Glasses.*



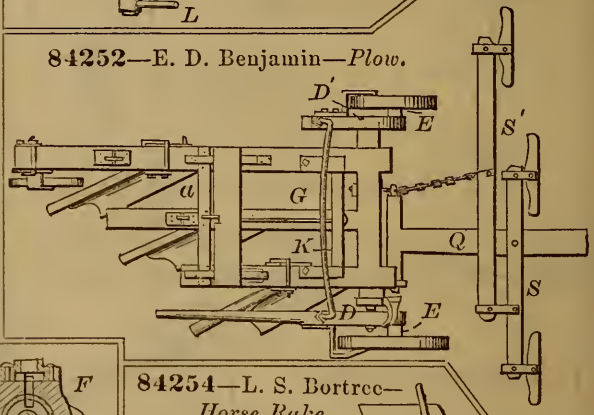
84247—S. L. Allen—*Planting Machine.*



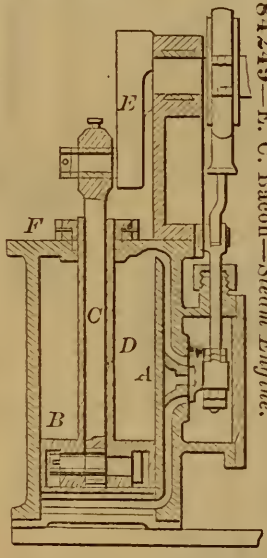
84248—H. E. Anderson—*Swaging Attachment.*



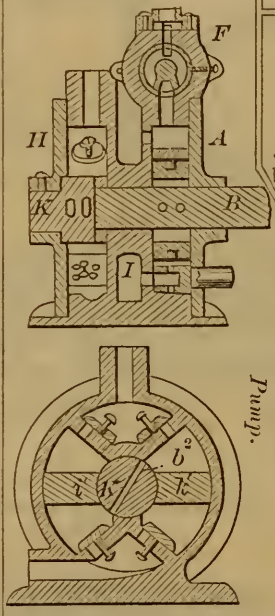
84252—E. D. Benjamin—*Plow.*



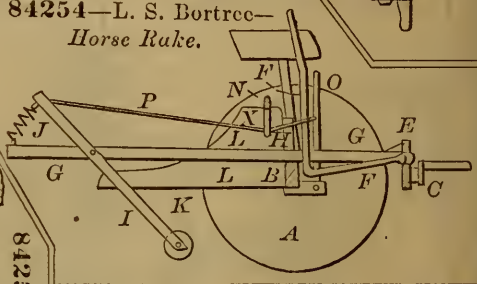
84249—E. C. Bacon—*Steam Engine.*



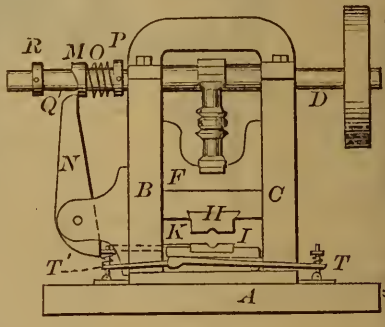
84251—J. S. Barden—*Steam Pump.*



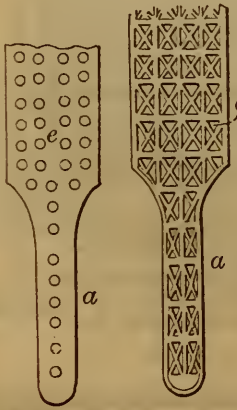
84254—L. S. Bortree—*Horse Rake.*



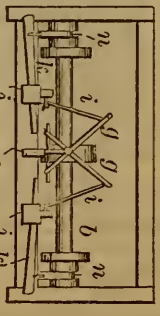
84256—E. Brown—*Hinge Machine.*

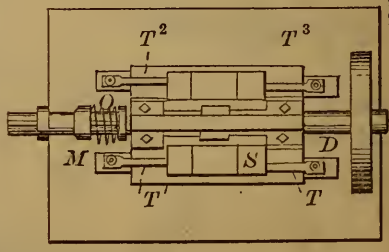


84255—A. R. Brown—*Bandage for Preternatural Enlargements.*

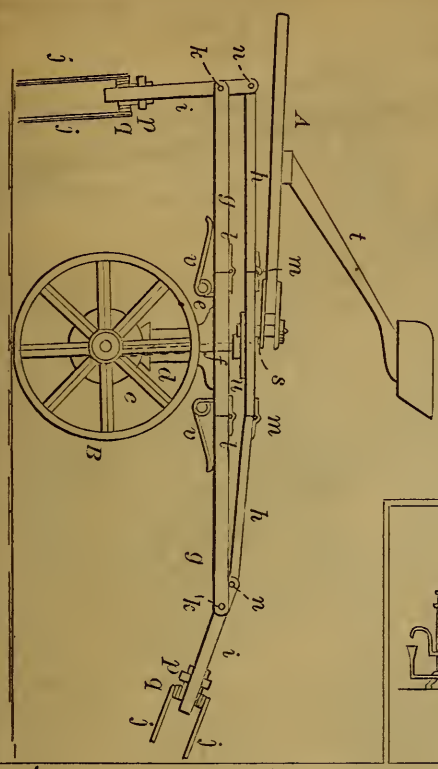


84253—Booth & Sanderson—*Loom.*

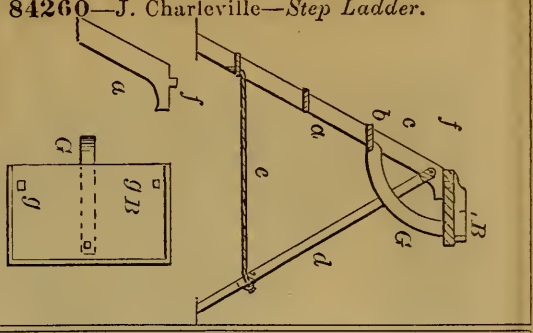




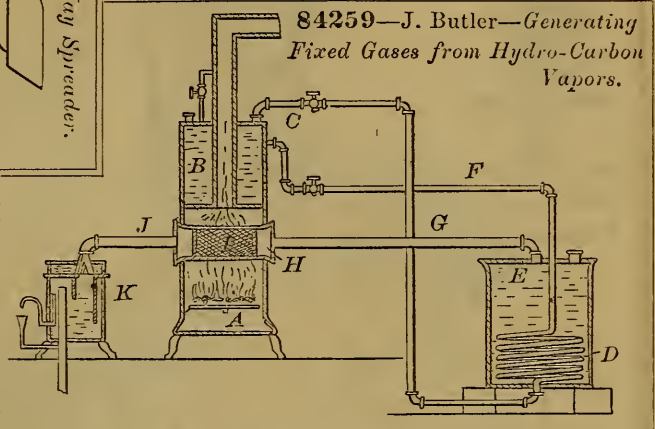
84257—Burt & Hildreth—*Hay Spreader.*



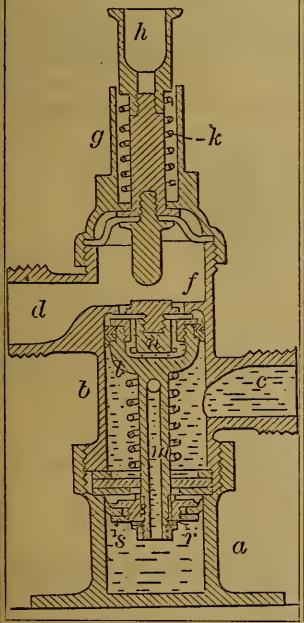
84260—J. Charleville—*Step Ladder.*



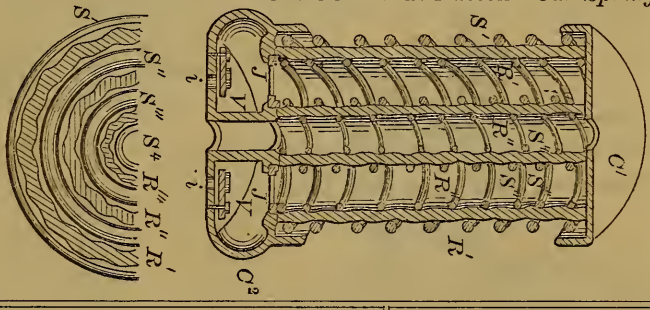
84259—J. Butler—*Generating Fixed Gases from Hydro-Carbon Vapors.*



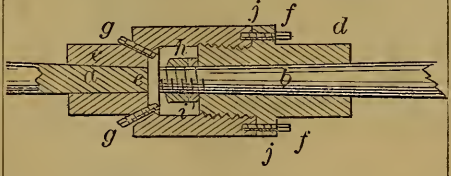
84262—H. H. Craigie—*Water Closet.*



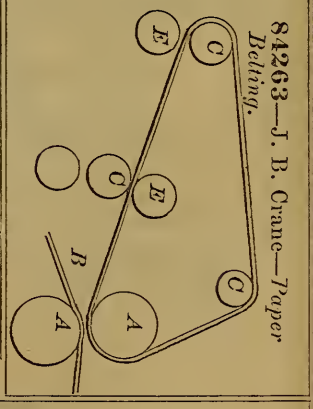
84258—E. T. Bussell—*Car Spring.*



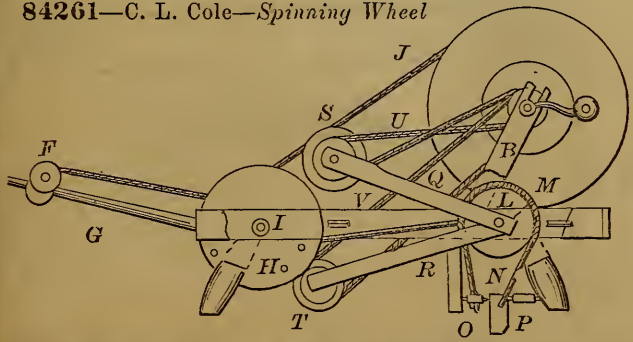
84264—Cummings, Pattee & Shaw—*Divided Axle for Railways.*



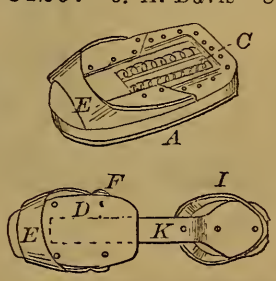
84263—J. B. Crane—*Paper Belting.*



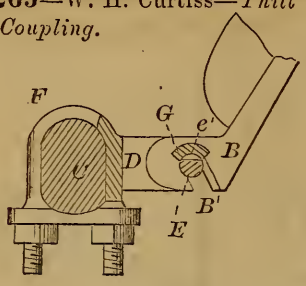
84261—C. L. Cole—*Spinning Wheel*

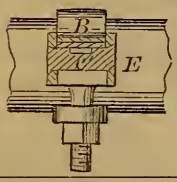


84267—J. A. Davis—*Clog.*

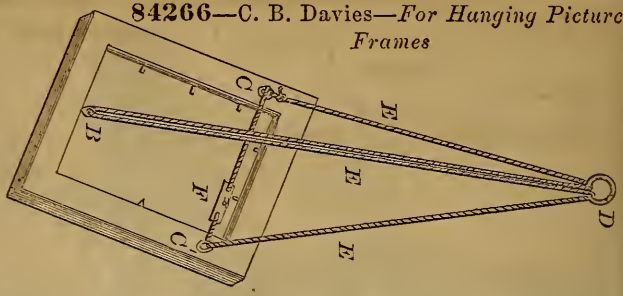


84265—W. H. Curtiss—*Thill Coupling.*

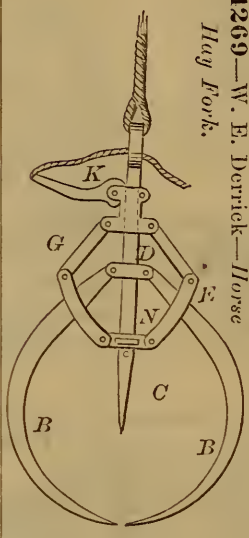




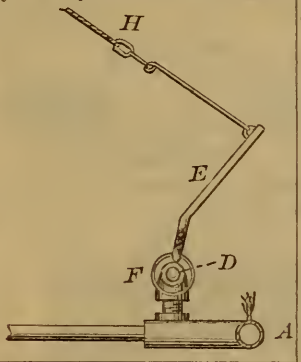
84266—C. B. Davies—*For Hanging Picture Frames*



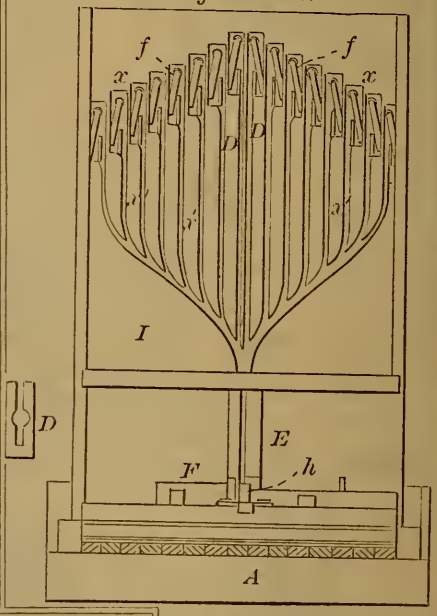
84269—W. E. Derrick—*Hay Fork.*



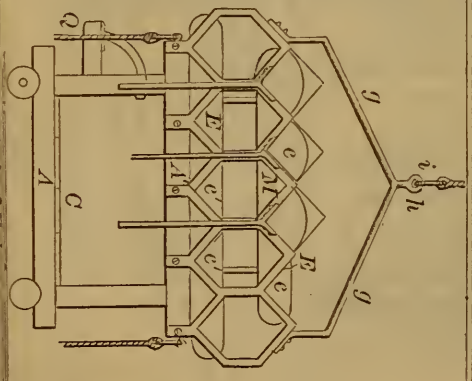
84270—O. E. Dodge—*Reflector for Public Halls.*

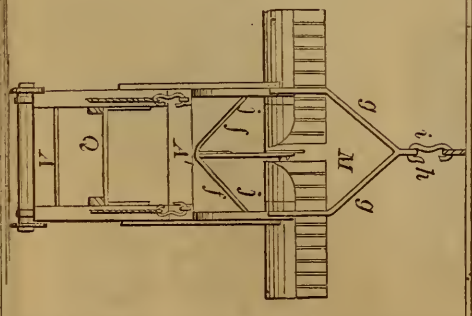


84273—F. G. Foster—*Type Setting Machine.*

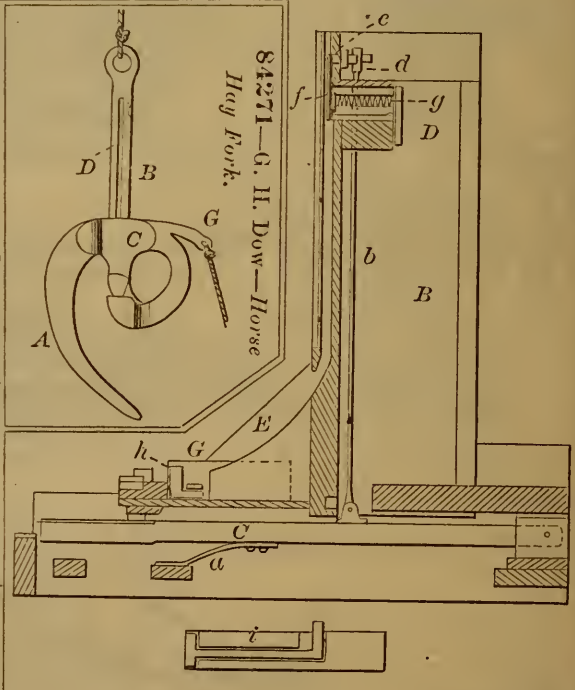


84268—P. Dehlinger—*Hod Elevator.*

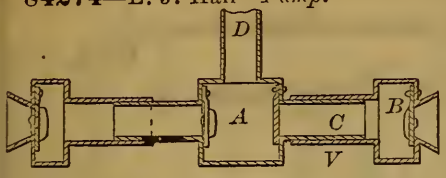


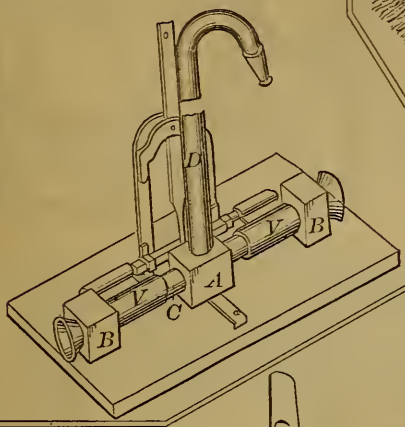


84271—G. H. Dow—*Hay Fork.*

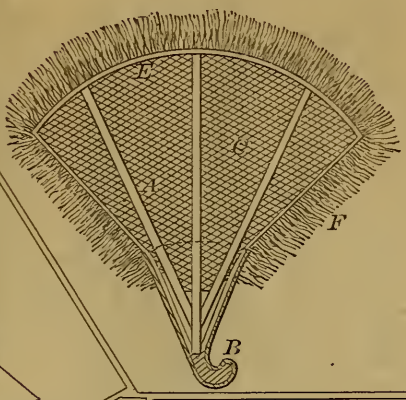


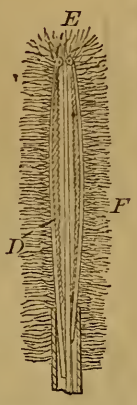
84274—E. J. Hall—*Pump.*



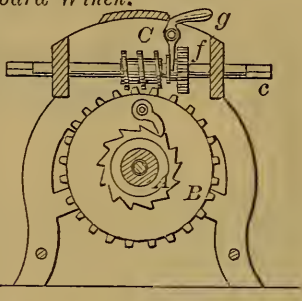


84276—A. B. Hancock—*Fan.*

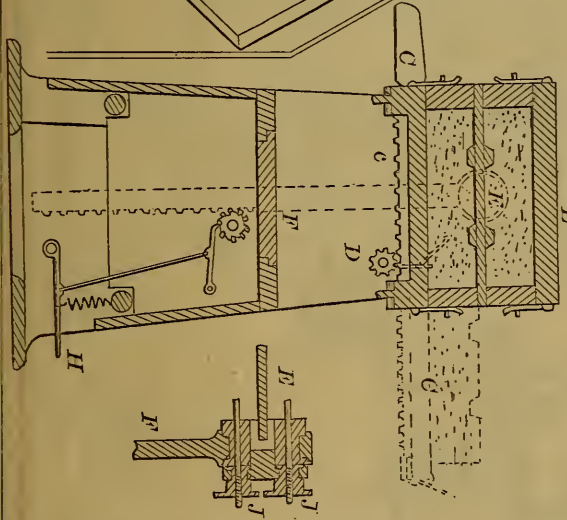


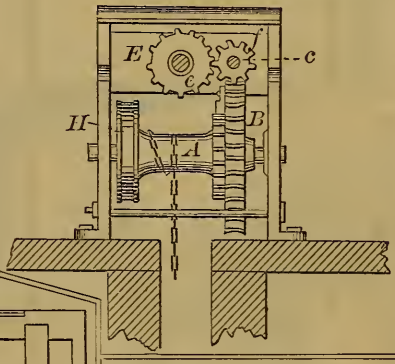


84275—E. C. Hammond—*Centre Board Winch.*

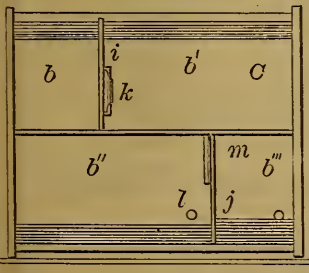


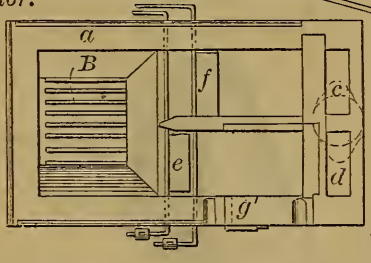
84279—W. T. Horrobin—*Moulding Machine.*



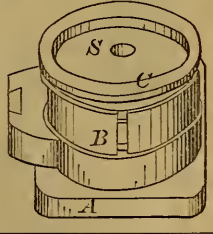


84277—J. Harris—*Evaporator.*

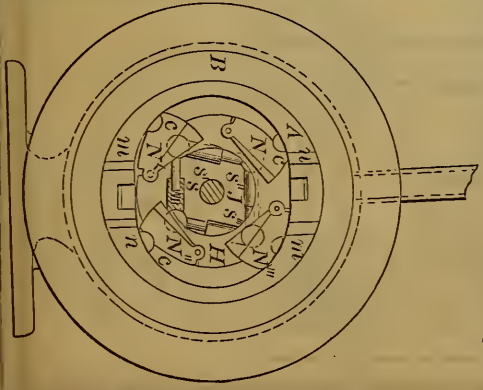




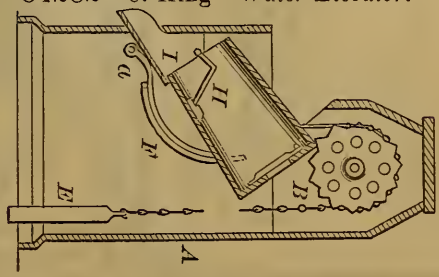
84278—Herriott & Myers—*Slide Valve.*



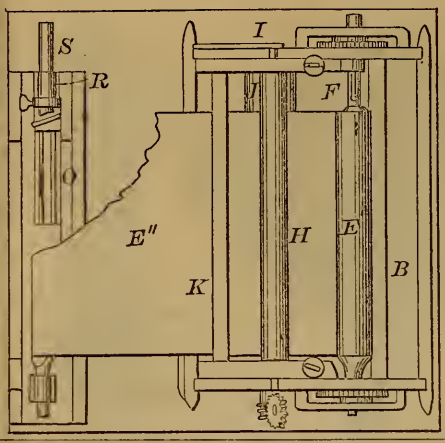
84280—C. Kaiser—*Steam Engine.*



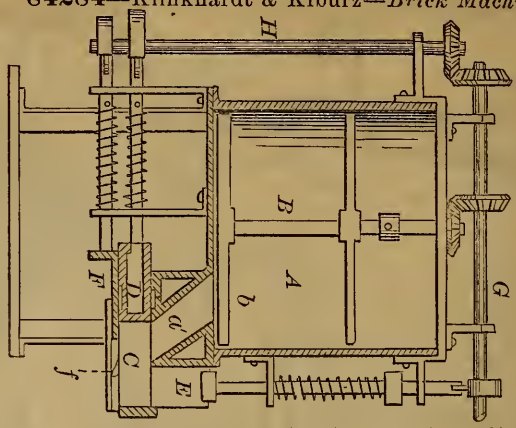
84282—C. King—*Water Elevator.*



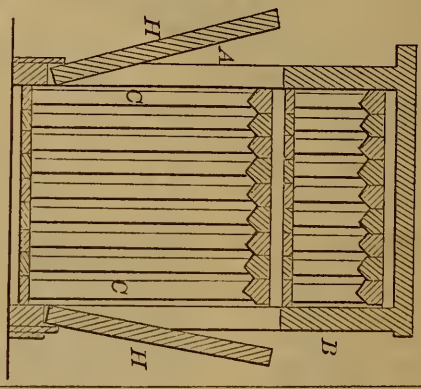
84281—R. H. Kent—*Cloth Measuring Apparatus.*



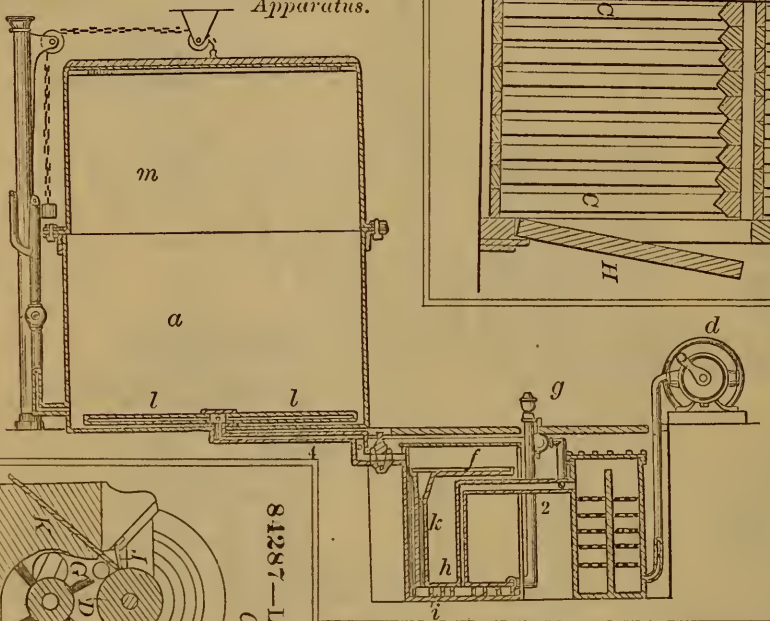
84284—Klinkhardt & Kiburz—*Brick Machine.*



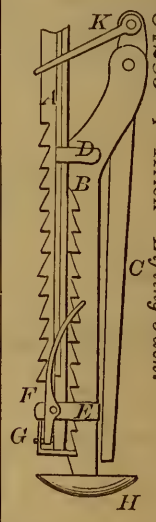
84286—J. C. & R. R. Lander—*Beehive.*



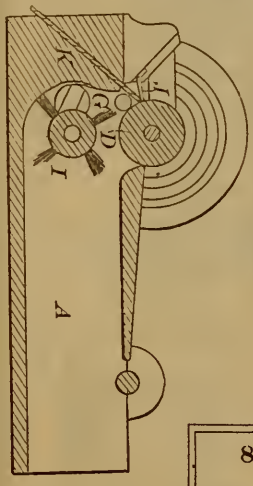
84283—Kitchen & Nash—*Gas Apparatus.*



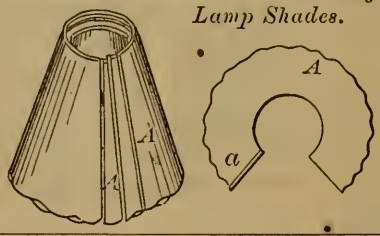
84285—F Krick—*Lifting Jack.*



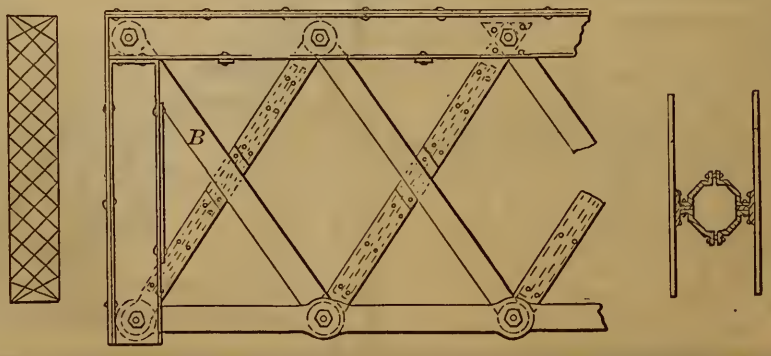
84287—Leavitt & Burridge—*Cotton Gin.*



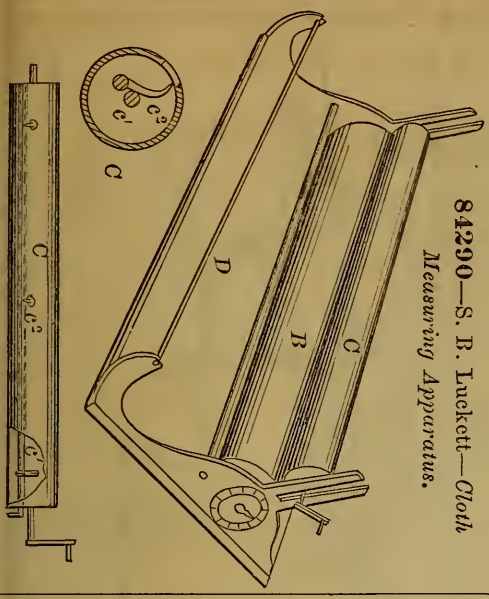
84289—Locke & Weeden—*Packing Lamp Shades.*



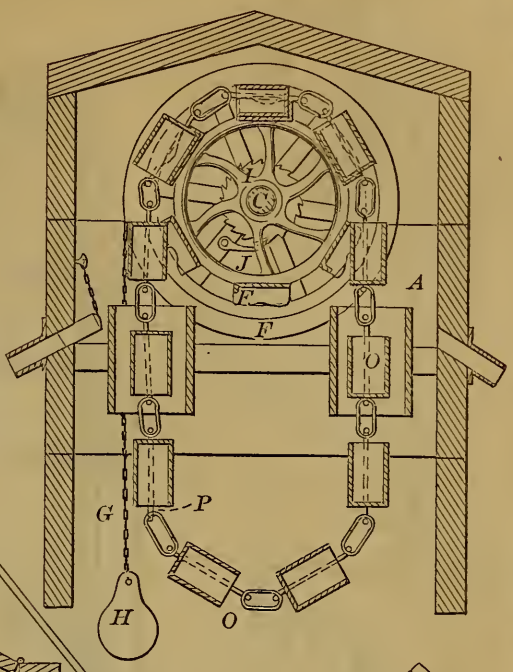
84288—J. H. Linville—*Bridge.*



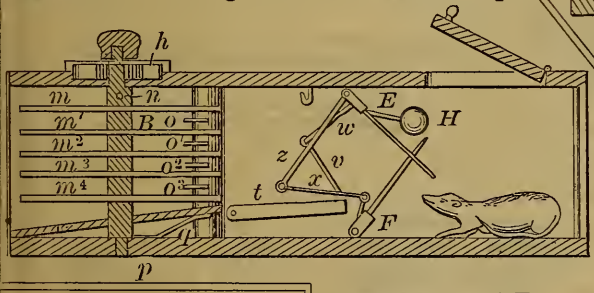
84290—S. B. Luckett—*Cloth Measuring Apparatus.*

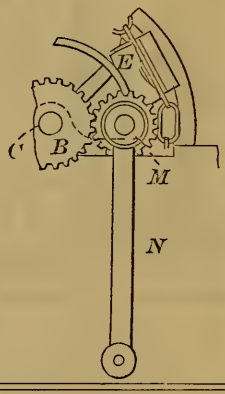


84293—C. W. L. Martine—*Water Elevator.*

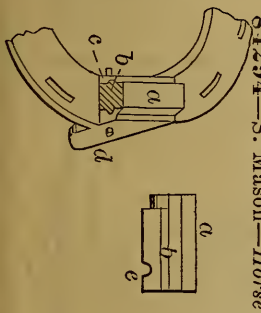


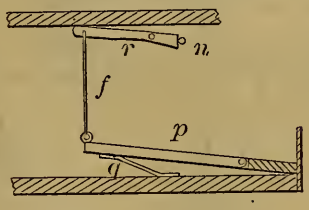
84291—Lushbaugh & Hurd—*Animal Trap.*

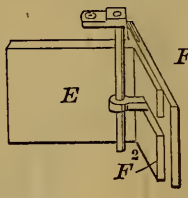




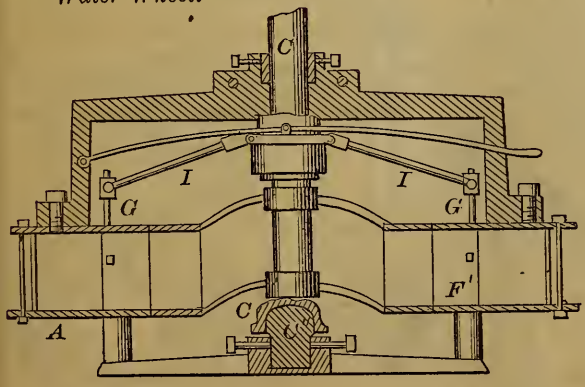
84294—S. Mason—*Horse Shoe.*



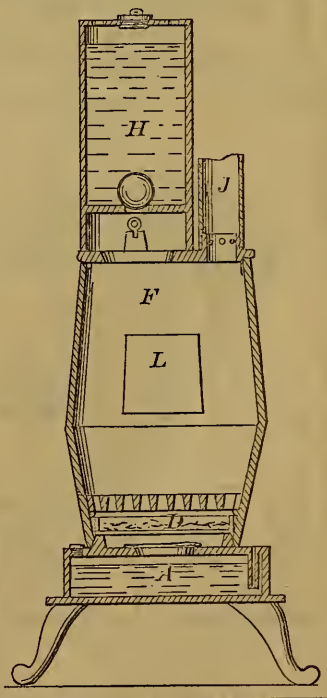




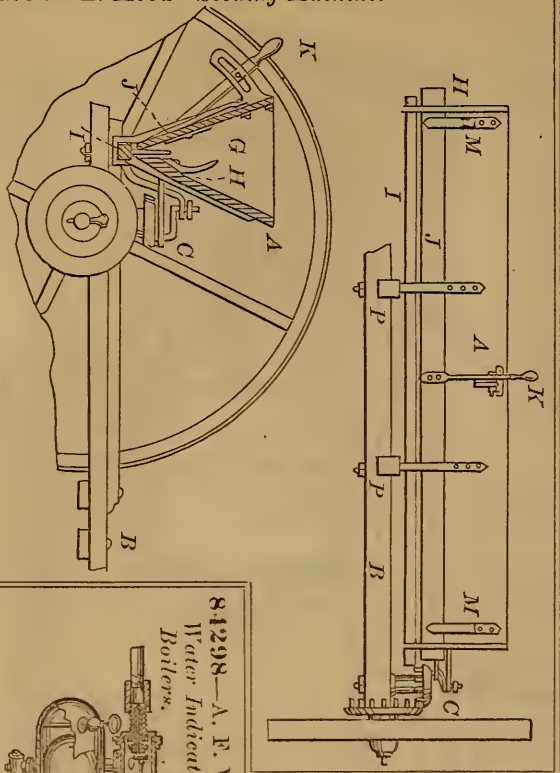
84292—T. W. Mahler—*Water Wheel.*



84295—McGill & Knox—*Stove.*



84296—L. Mood—*Seeding Machine.*



84297—F. A. Morley—*Potato Digger.*

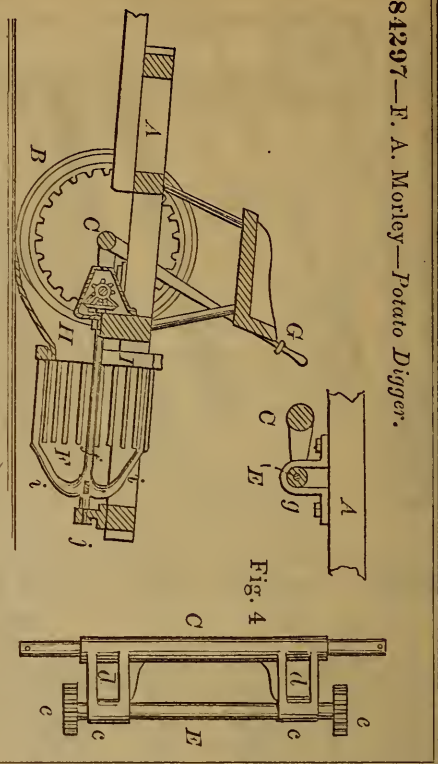
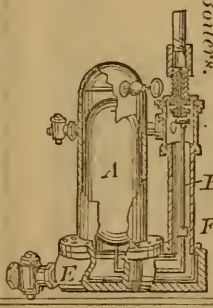
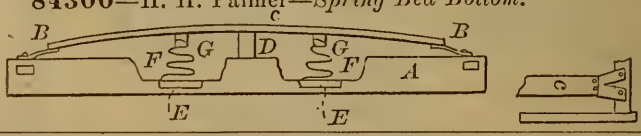


Fig. 4

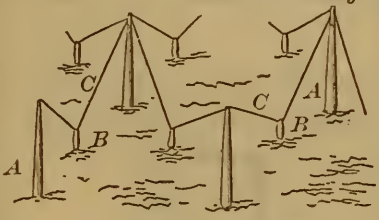
84298—A. F. W. Neynaber—*Water Indicator for Steam Boilers.*



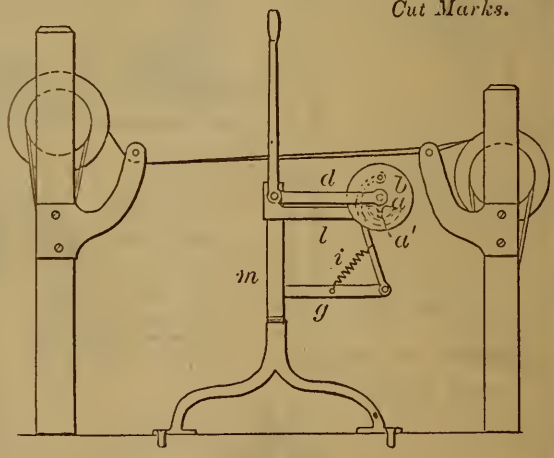
84300—H. H. Palmer—*Spring Bed Bottom.*



84299—G. J. Olendorf—*Poling Hops.*

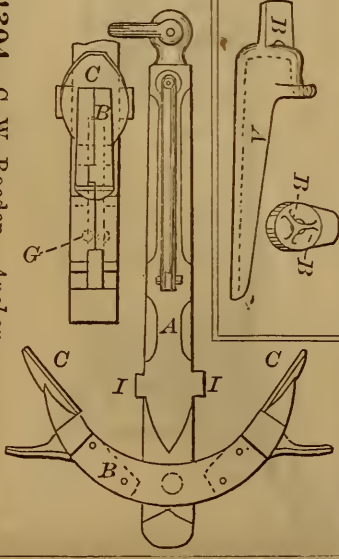


84301—W. G. Perry—*For Producing Weavers' Cut Marks.*

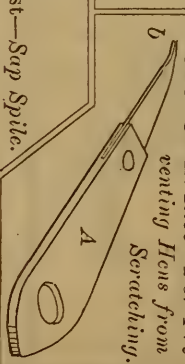


84302—C. C. Post—*Sap Spile.*

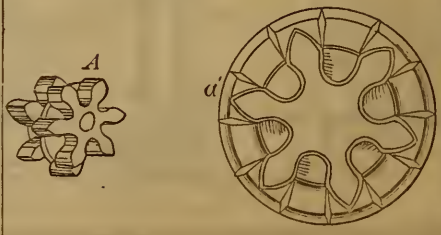
84304—C. W. Roeden—*Anchor.*



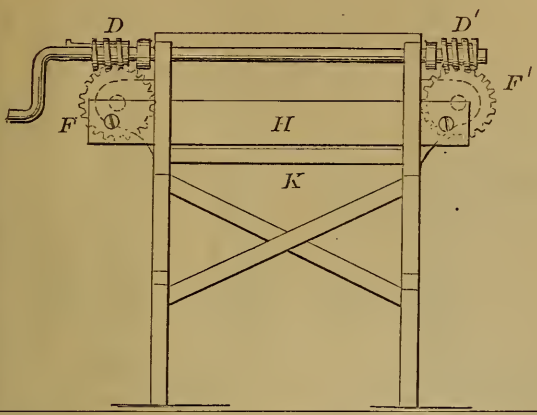
84303—E. Rice—*For Preventing Hens from Scratching.*



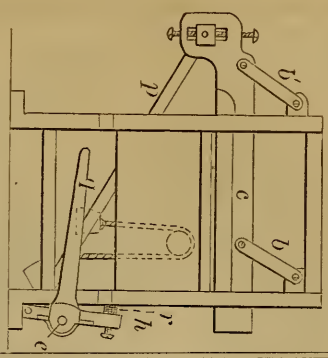
84305—W. Rowell—*Moulding Gear Wheels.*



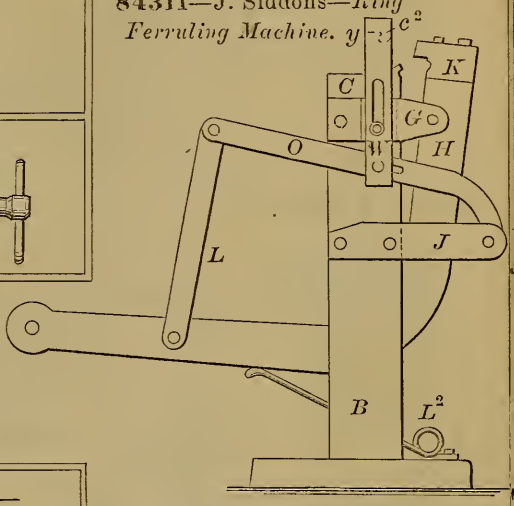
84306—G. H. Sanborn—*Paper Cutting Machine.*



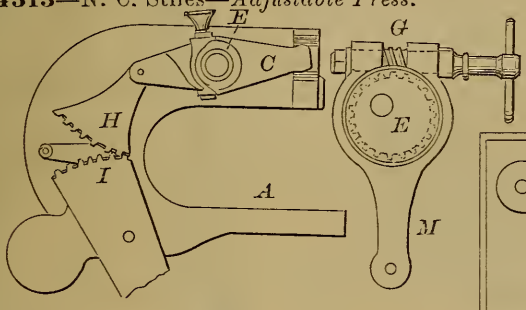
84307—G. H. Sanborn—*Paper Cutting Machine.*



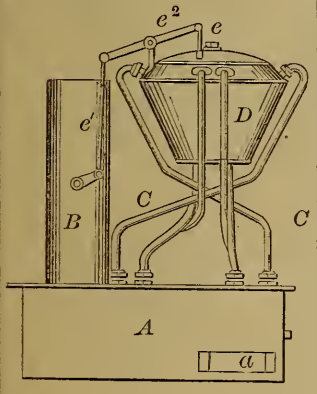
84311—J. Siddons—*Ring Ferruling Machine.*

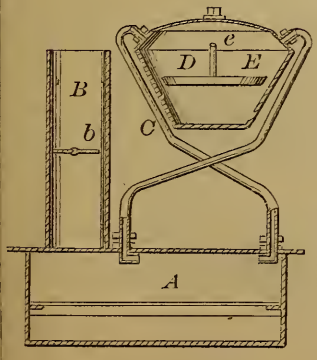


84313—N. C. Stiles—*Adjustable Press.*

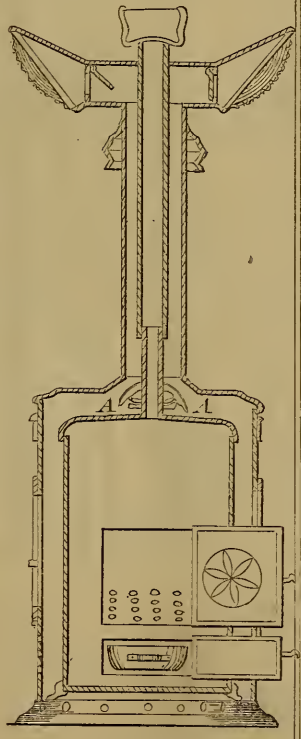


84308—E. Sanger—*Car Heating Stove.*

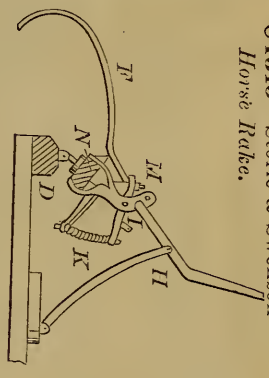




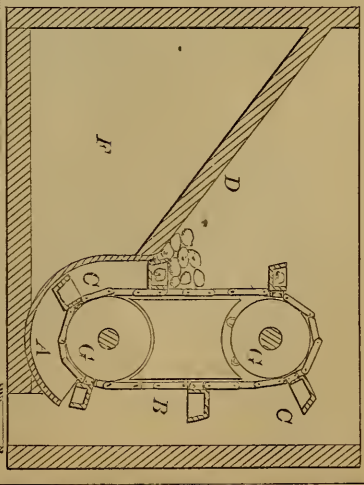
84312—J. Spear—*Car Stove.*



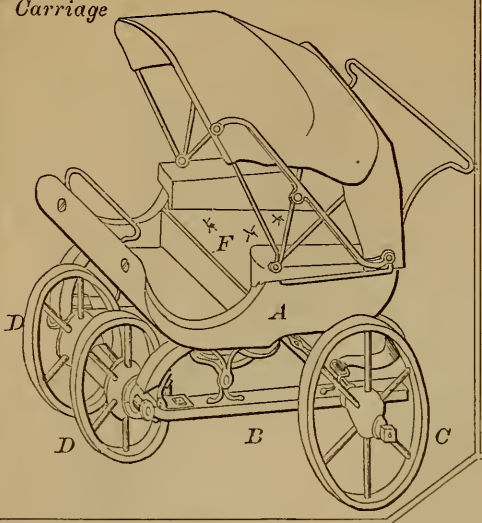
84315—Storle & Swenson—*Horse Rake.*



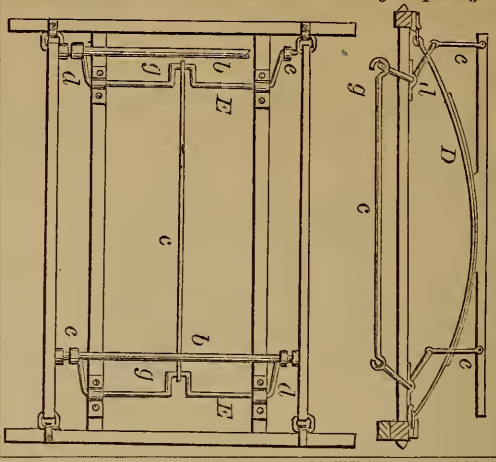
84309—N. B. Sherwood—*Potato Planter.*



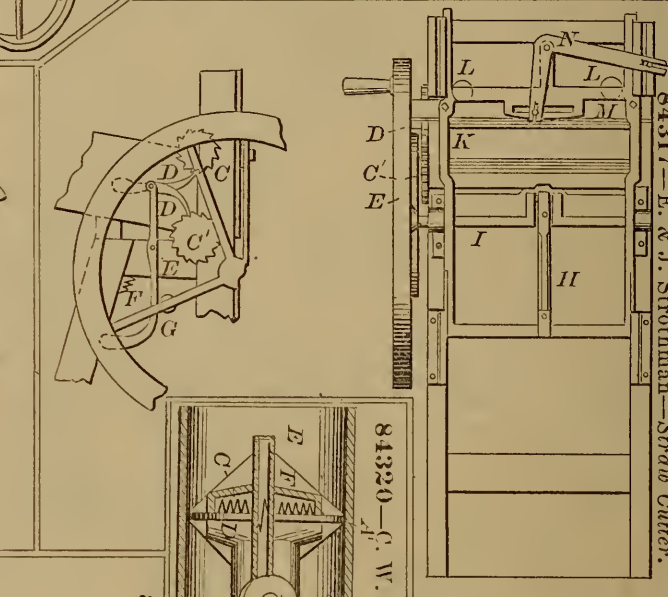
84310—L. Shmeltzer—*Sleigh and Baby Carriage*



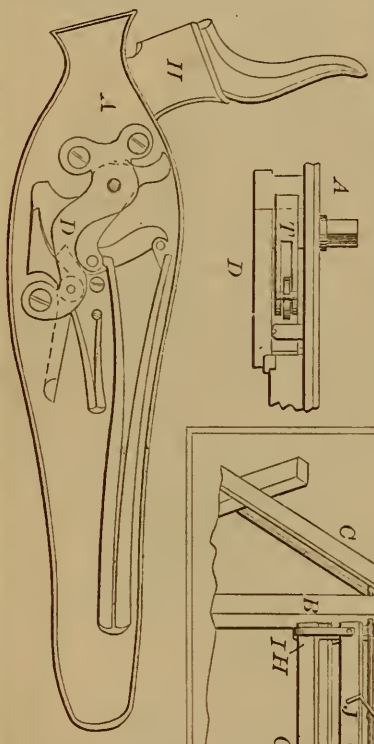
84316—A. C. Stowe—*Carriage Spring.*



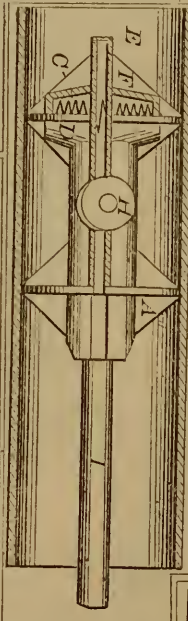
84317—E. & J. Strothman—*Straw Cutter.*



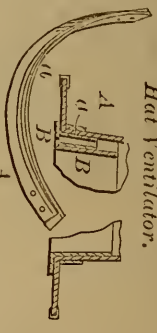
84314—J. Stokes—*Gun Lock.*



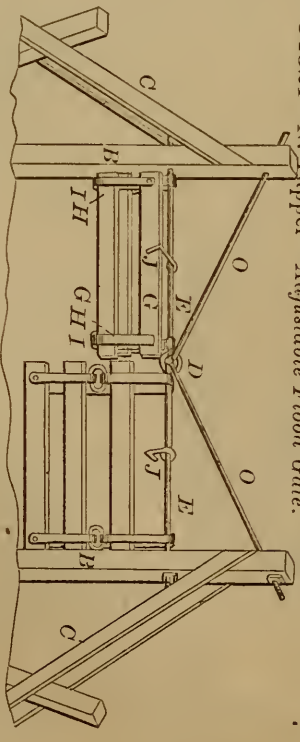
84320—C. W. Treimain—*Boiler Tube Scraper.*



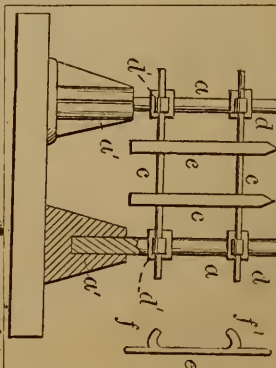
84323—W. F. Warburton—*Hat Ventilator.*



84321—N. Tupper—*Adjustable Flood Gate.*

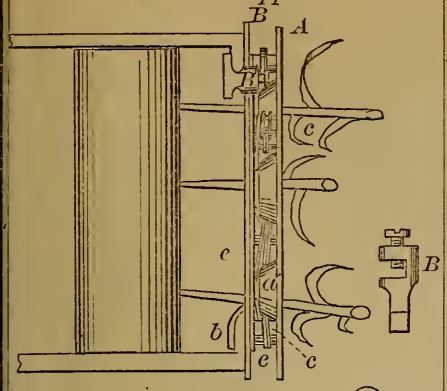


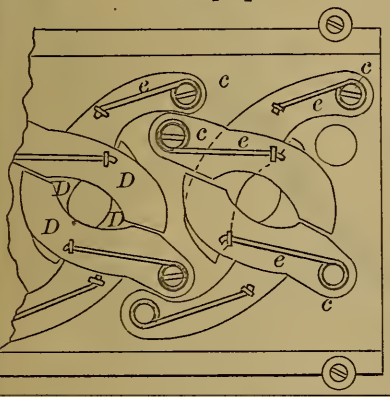
84318—A. Terry—*Fence.*



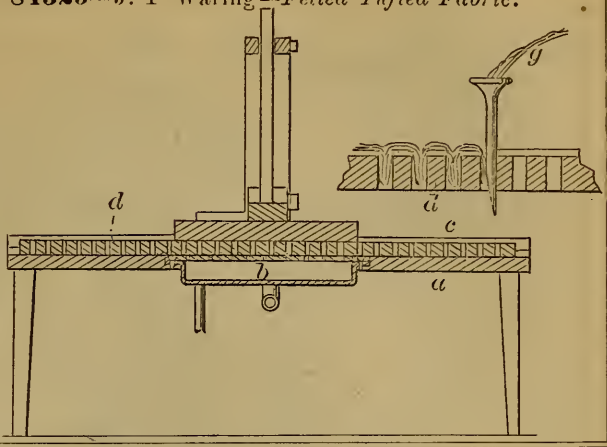
84319—W. Thompson—*Car Window Ventilator.*

84324—Ward & Bean—*Cane and Willow Stripper.*

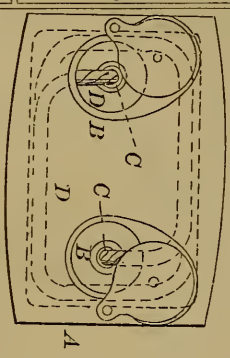




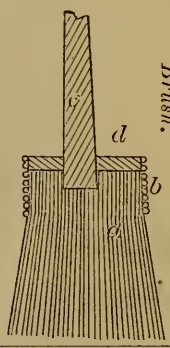
84325—J. T Waring—*Felted Tufted Fabric.*



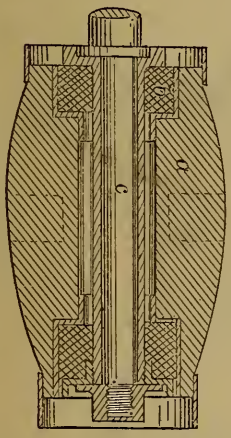
84326—I. P. Wendell—*Journal Bearing for Railroad Cars.*



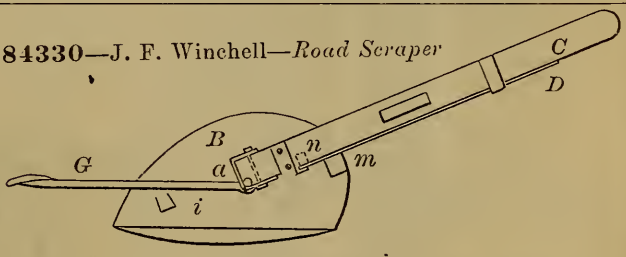
84327—D. White—*Paint Brush.*

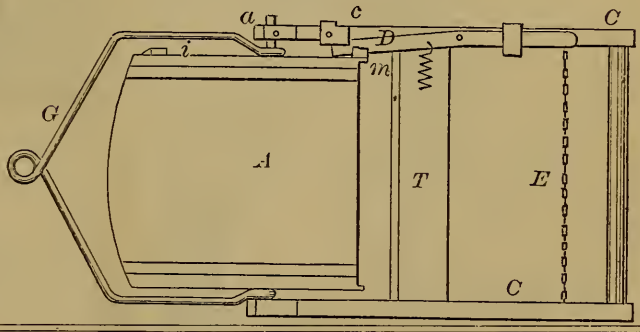


84329—G. F. Wilson—*Inserting India Rubber in Carriage Hubs.*

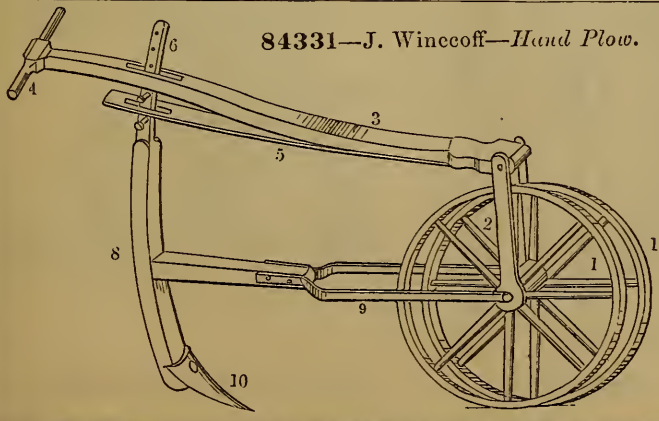


84330—J. F. Winchell—*Road Scraper*

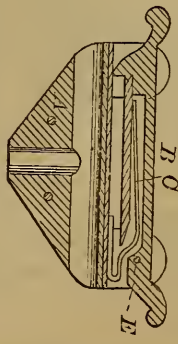




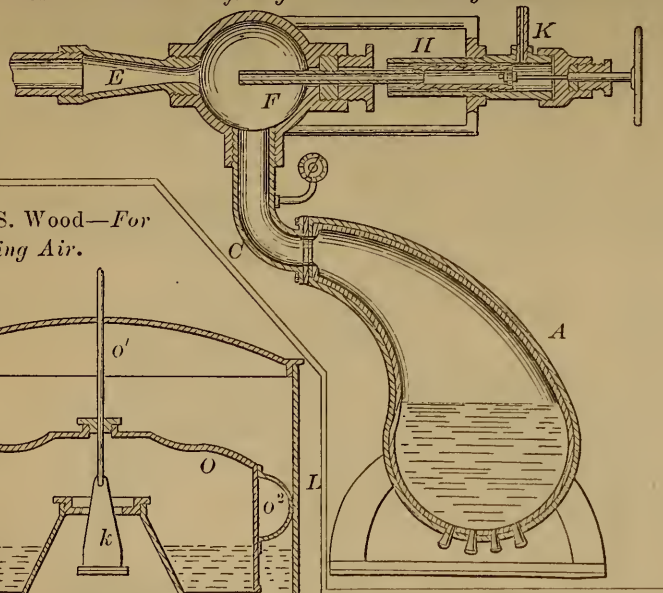
84331—J. Winecoff—*Hand Plow.*



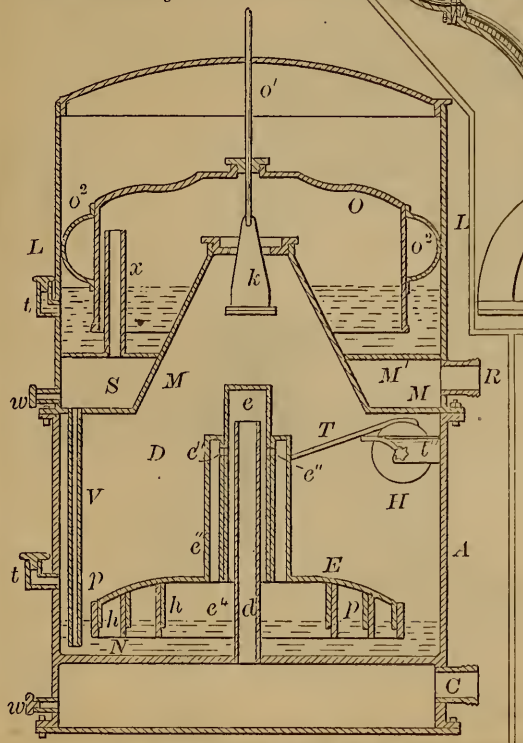
84328—C. Whittaker—*Rein Holder.*



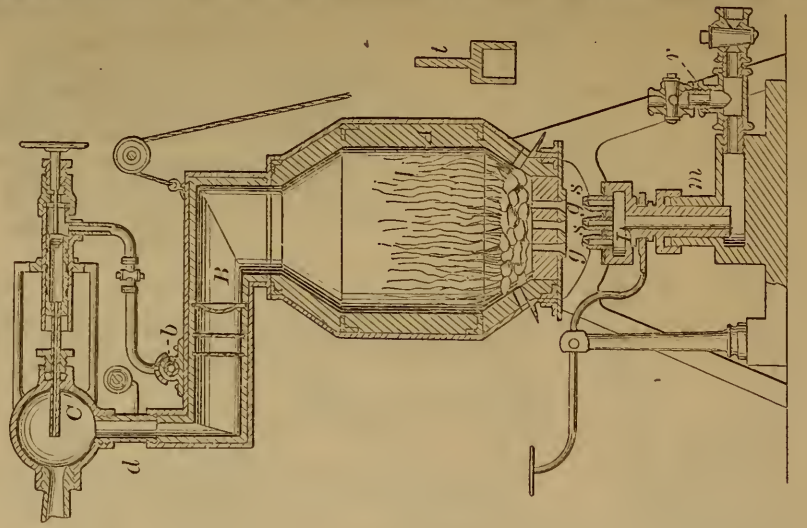
84333—J. Absterdam—*For Refining Iron and Making Steel.*



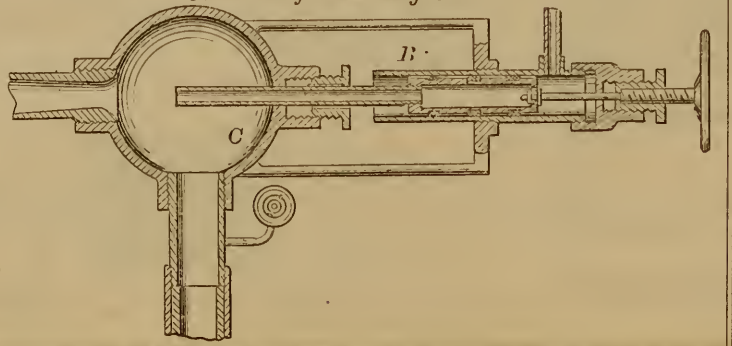
84332—J. S. Wood—*For Carburetting Air.*



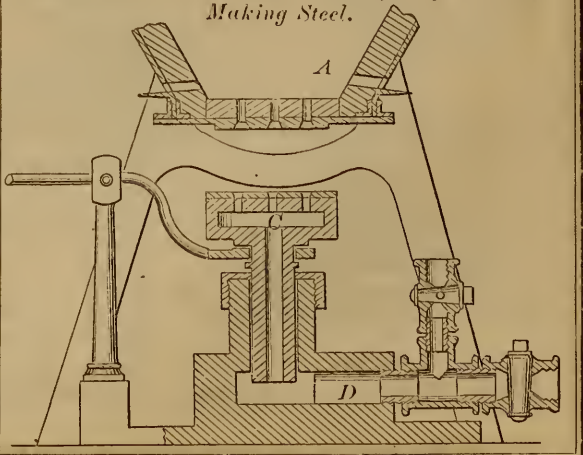
84335—J. Absterdam—*For Refining Iron and Making Steel.*



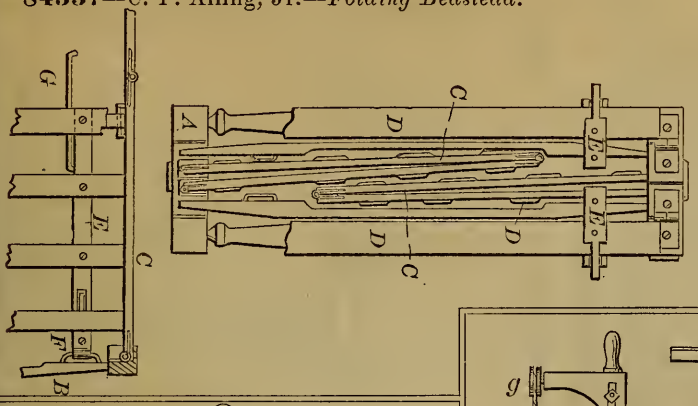
84336—J. Absterdam—*For Introducing Gas Fuel into a Converter for Making Steel.*



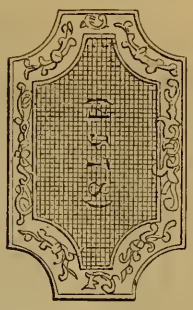
84334—J. Absterdam—*For Refining Iron and Making Steel.*



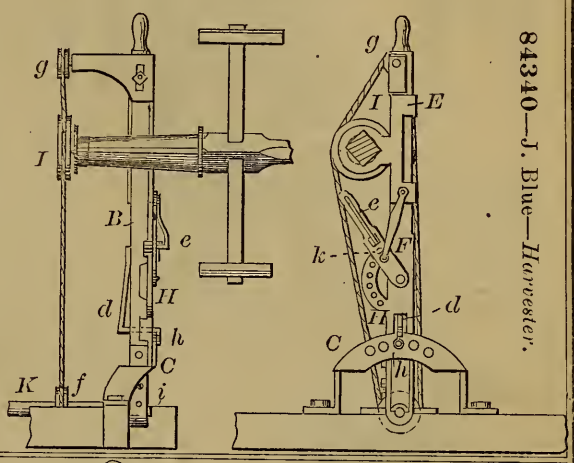
84337—C. P. Alling, Jr.—*Folding Bedstead.*



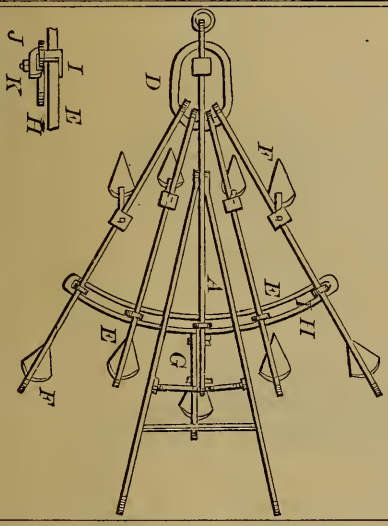
84341—G. W. Casilear—*For Preventing the Alteration of Numbers on Bonds.*



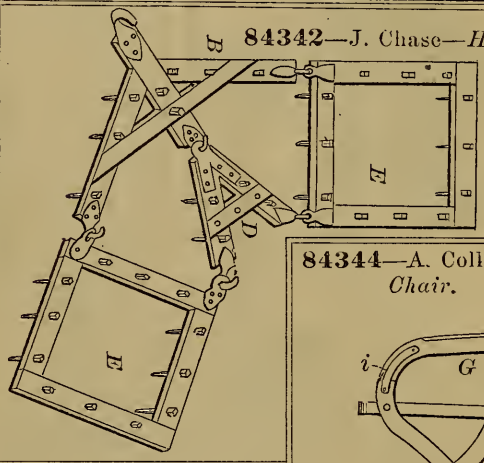
84340—J. Blue—*Harvester.*



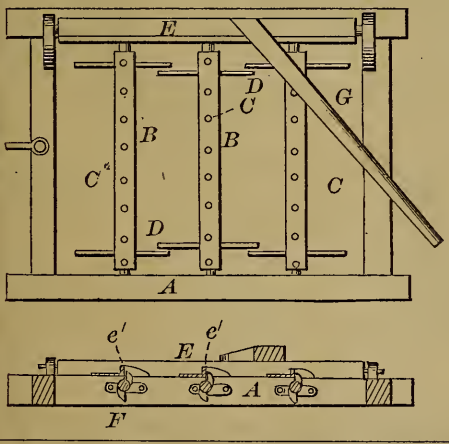
84338—T. Arndt—*Cultivator.*



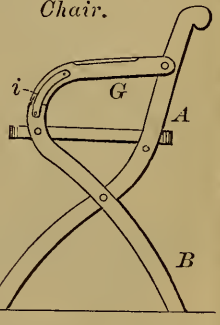
84342—J. Chase—*Harrow.*



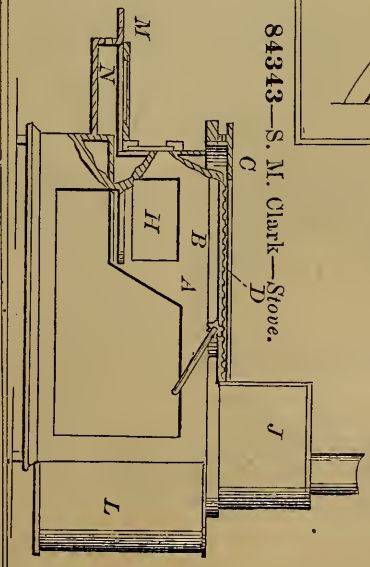
84339—M. Atwood—*Harrow.*



84344—A. Collignon—*Chair.*

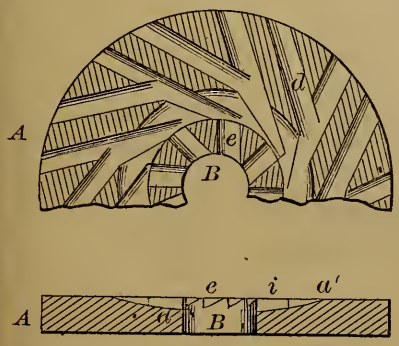


84343—S. M. Clark—*Stove.*

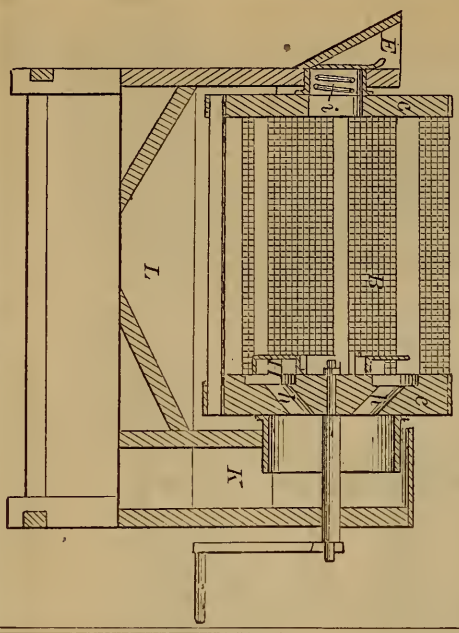


84346—Cushman & Dennis—*Pounce Holder.*

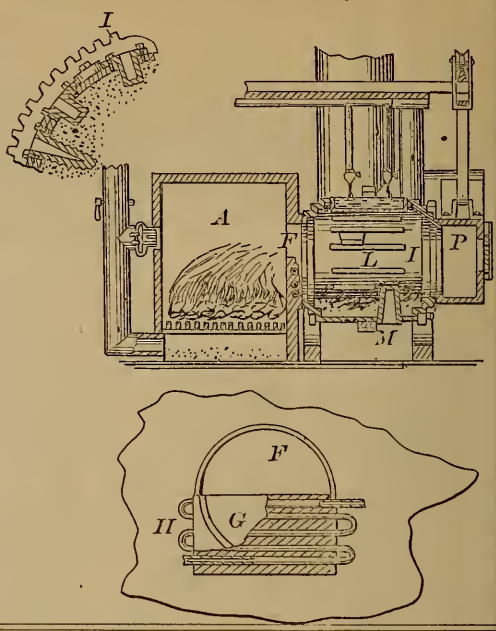
84349—J. W. Gaines—*Millstone Dress.*



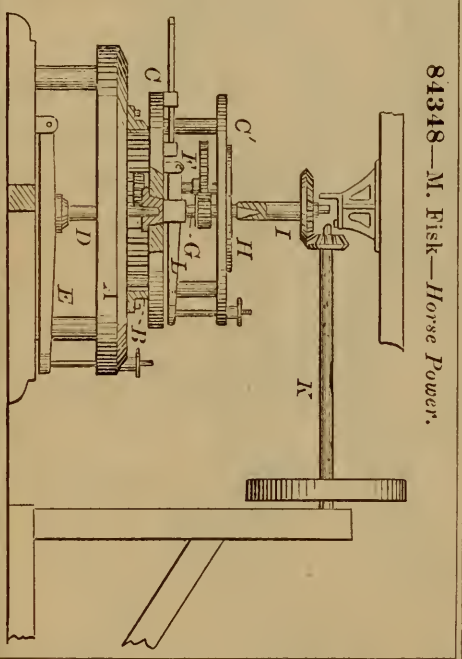
84345—J. J. Crider—*Grain Screen.*



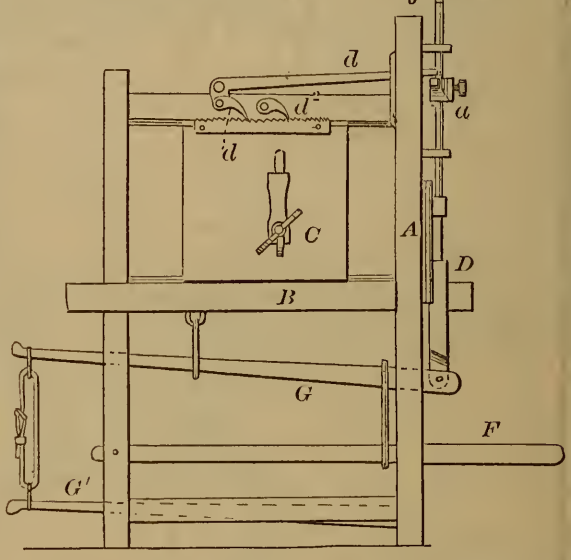
84347—S. Danks—*Puddling Furnace.*



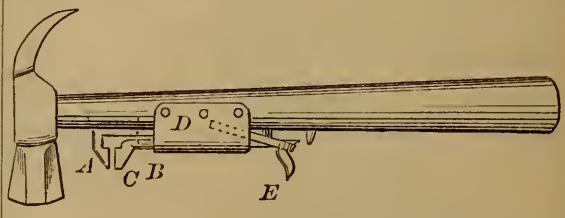
84348—M. Fisk—*Horse Power.*



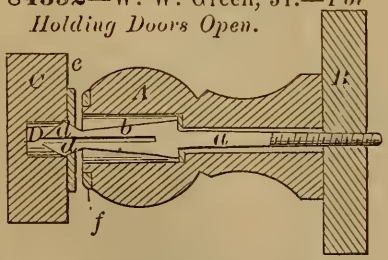
84350—W. Gilmore—*Tenoning Machine.*



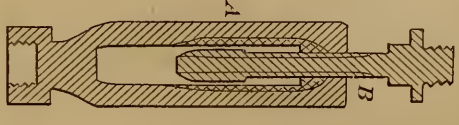
84351—R. W. Green—*Hammer and Nail Holder*



84352—W. W. Green, Jr.—*For Holding Doors Open.*

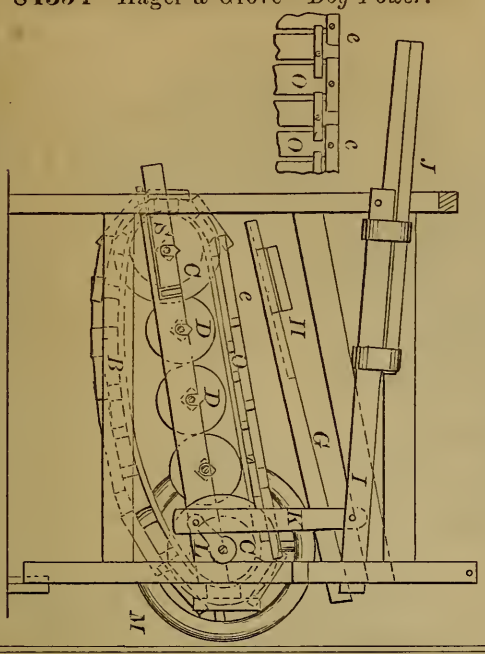


84353—E. Guillod—*Drilling Jar.*

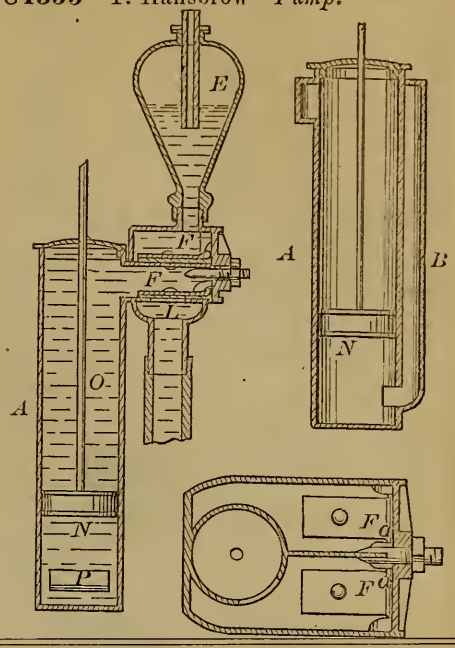


84359—J. G. Jung—*Constructing Chains.*

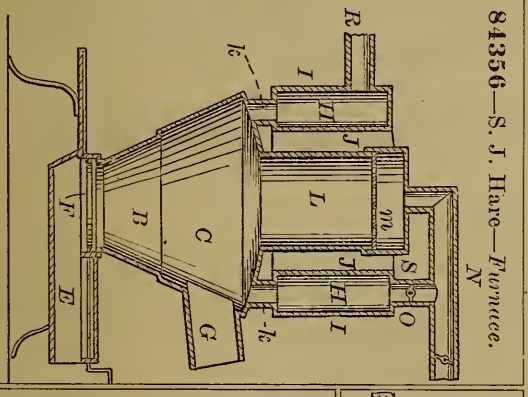
84354—Hager & Grove—*Dog Power.*



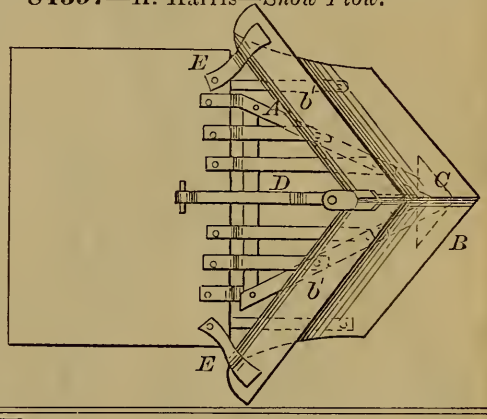
84355—T. Hansbrow—*Pump.*



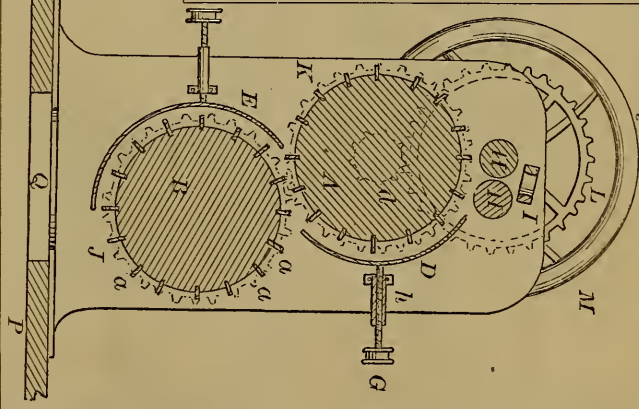
84356—S. J. Hare—*Furnace.*



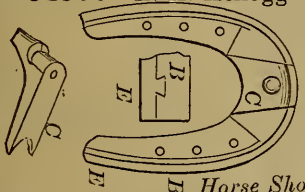
84357—H. Harris—*Snow Plow.*



84358—J. A. Huss—*For Cleaning Entrails.*

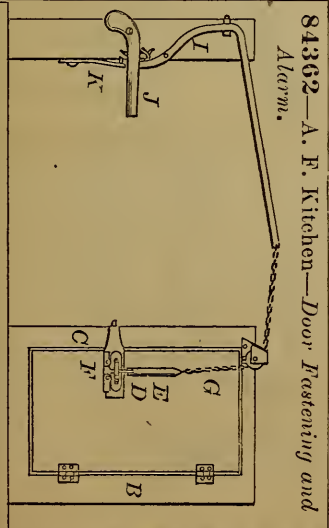


84360—L. H. Kellogg—

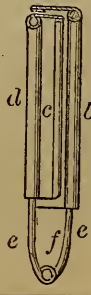


Horse Shoe.

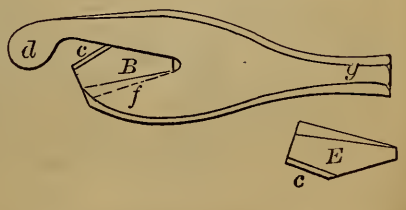
84362—A. F. Kitchen—*Door Fastening and Alarm.*



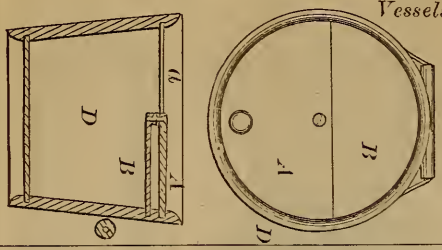
84364—S. Lagowitz—*Traveling Bag Frame.*



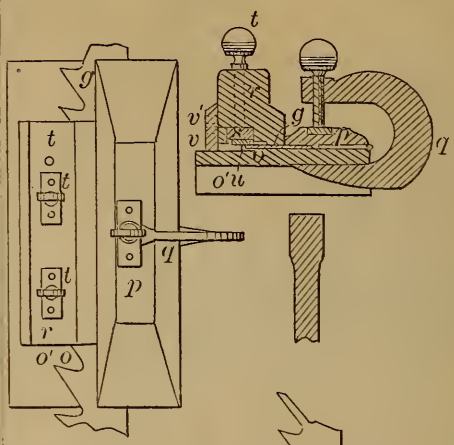
84361—W. A. L. Kirk—*Swage for Saws.*



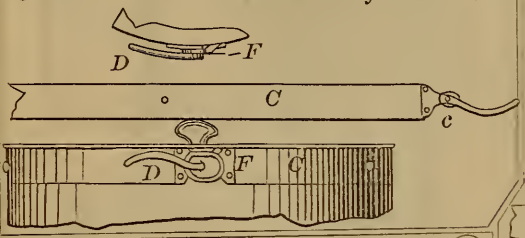
84363—J. Kline—*Cover for Circular Vessels.*

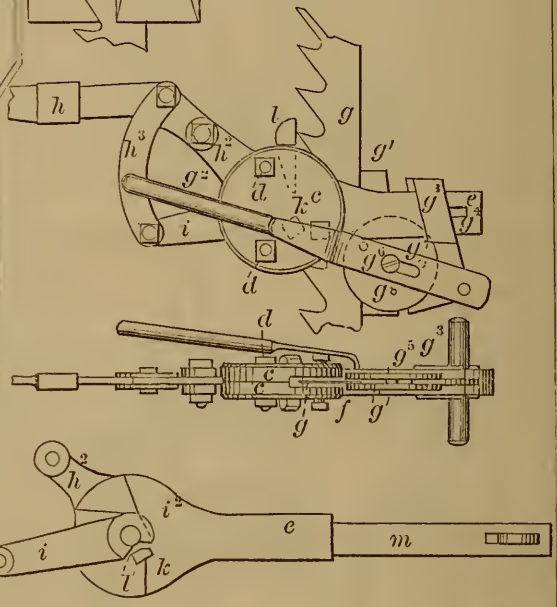


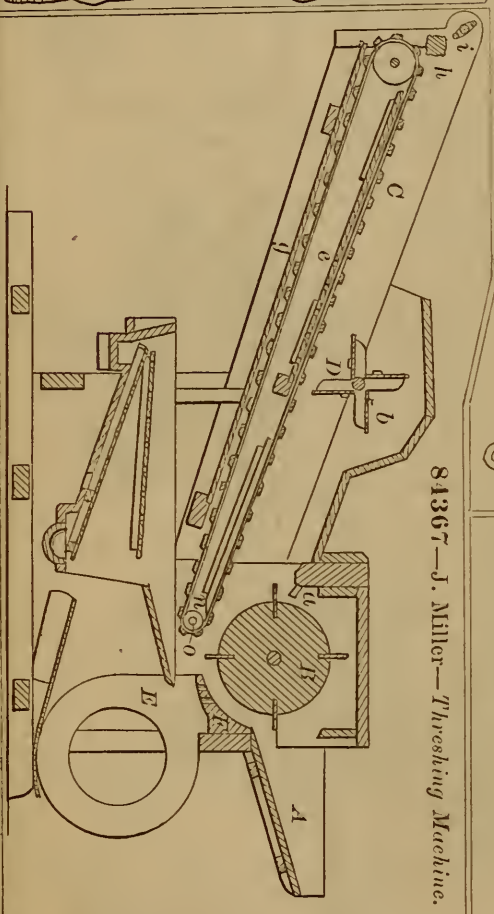
84365—J. Lough—*Dressing Saw Teeth.*



84366—S. Macferran—*Heads for Boxes.*

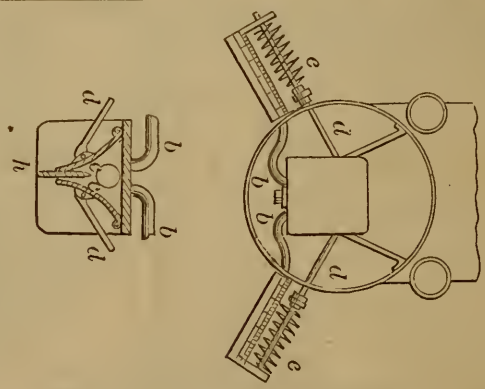




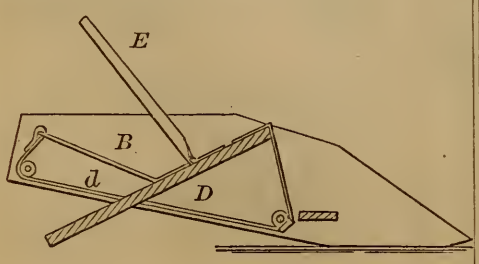


84367—J. Miller—*Threshing Machine.*

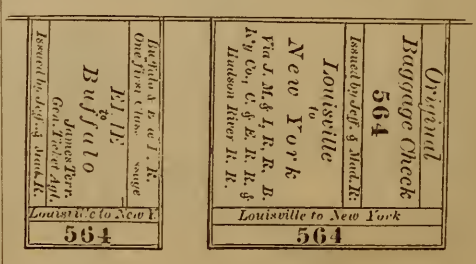
84370—J. Sanders—*Steam Engine.*



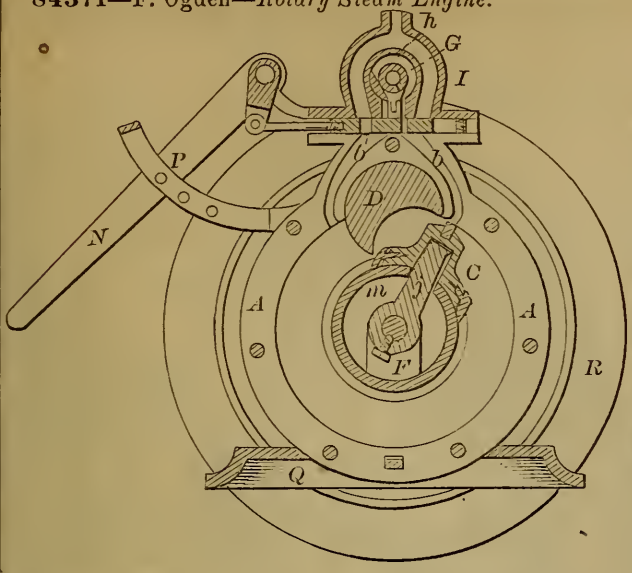
84368—J. Miller—*Harvester.*



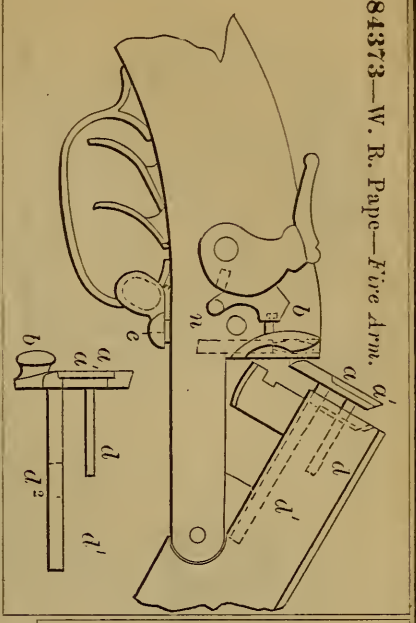
84372—E. H. Paine—*Baggage Check.*



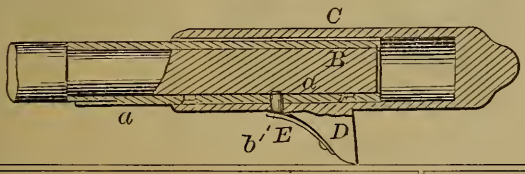
84371—F. Ogden—*Rotary Steam Engine.*



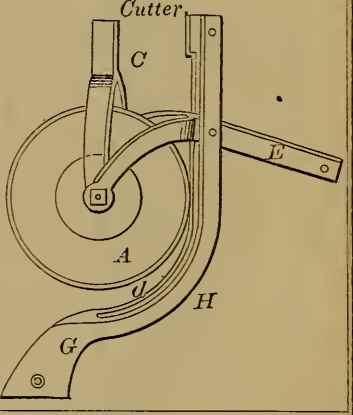
84373—W. R. Pape—*Fire Arm.*



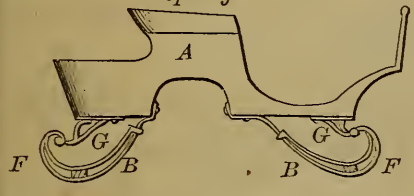
84376—W. W. Rexford—*Pole and Hold Back.*



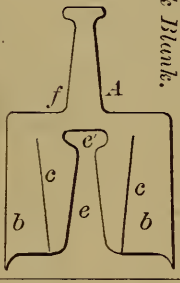
84374—G. S. Perfater—*Root Cutter.*



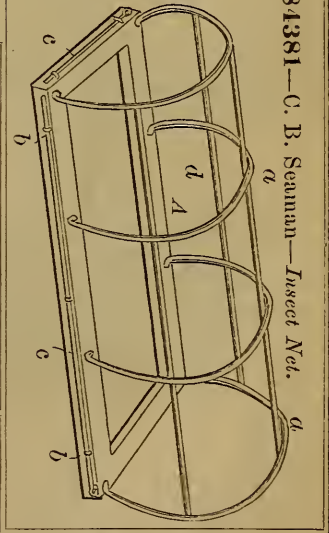
84378—B. H. Roberts—*Carriage Spring.*



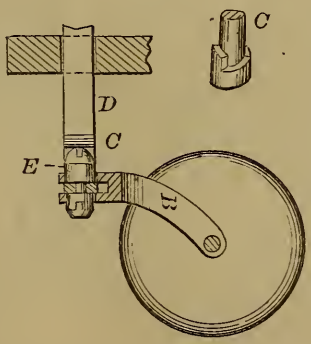
84377—J. C. Richardson—*Fork Blank.*



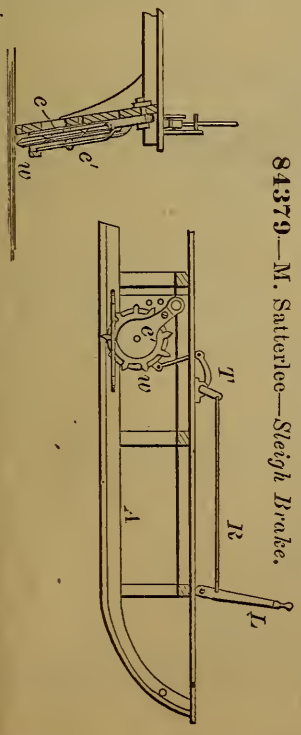
84381—C. B. Seaman—*Insect Net.*



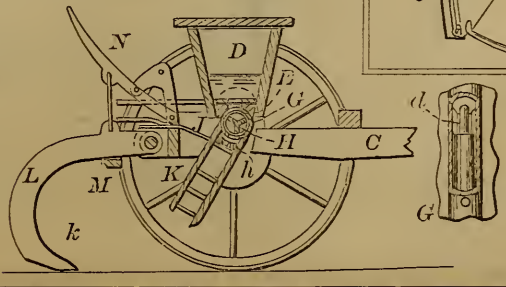
84380—M. Sattley—*Revolving Coulter.*



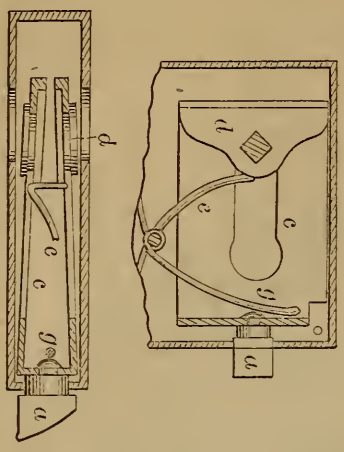
84379—M. Satterlee—*Sleigh Brake.*



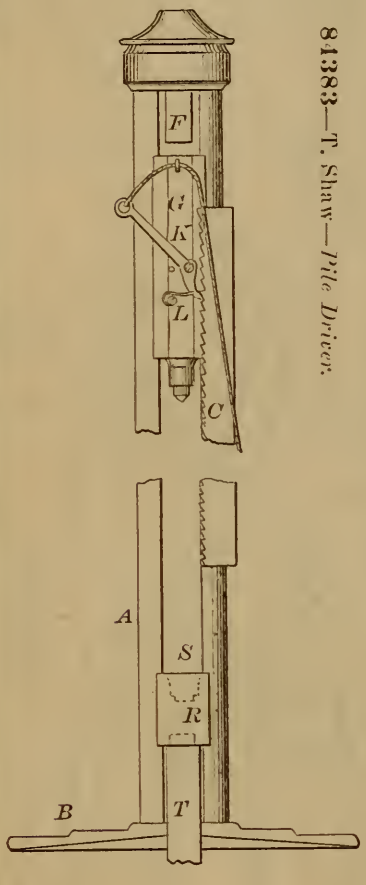
84375—G. Rank—*Seed Sower.*



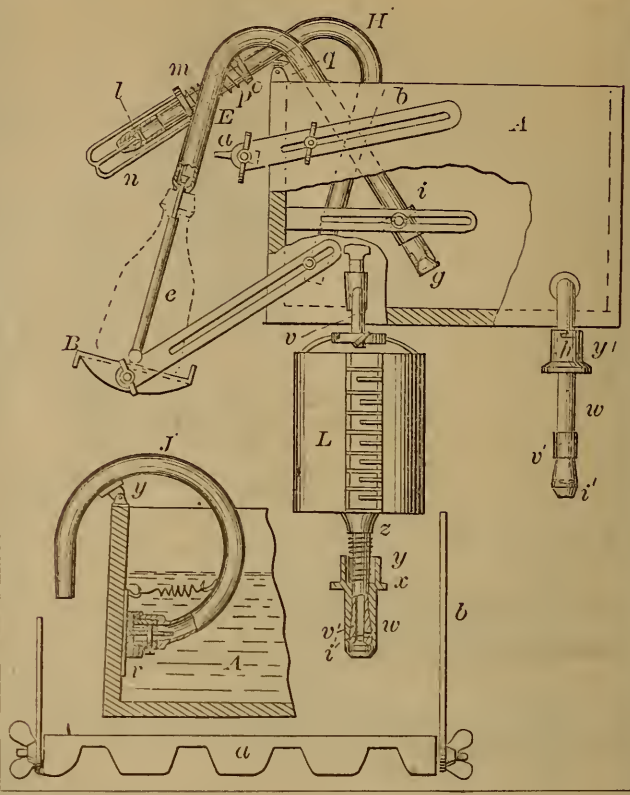
84382—G. A. Seaver—*Latch.*



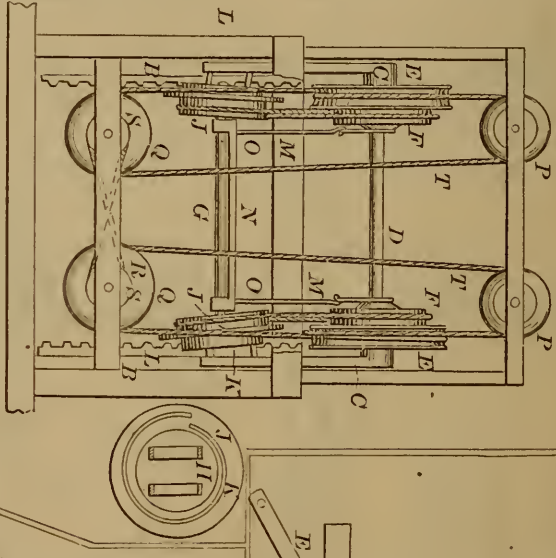
84383—T. Shaw—*Pile Driver.*



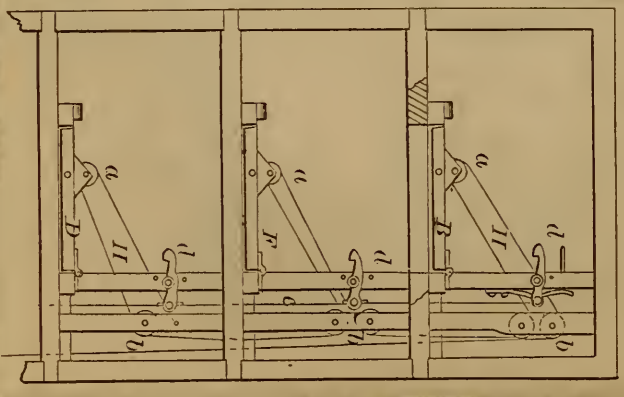
84384—P. M. Sherwood—*Bottle Filling Apparatus.*



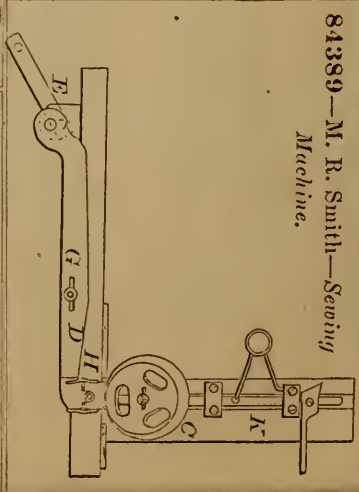
84385—T. B. Simonton—*Elevator.*



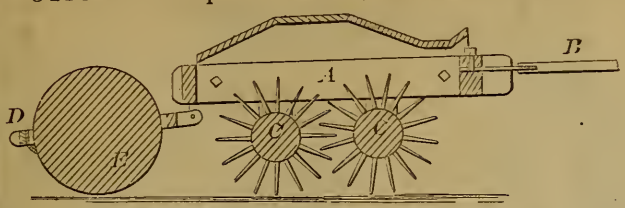
84387—J. D. Sinclair—*Hatchway.*



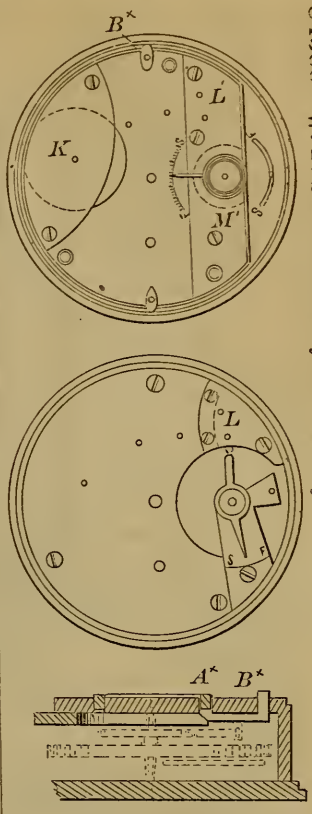
84389—M. R. Smith—*Sewing Machine.*



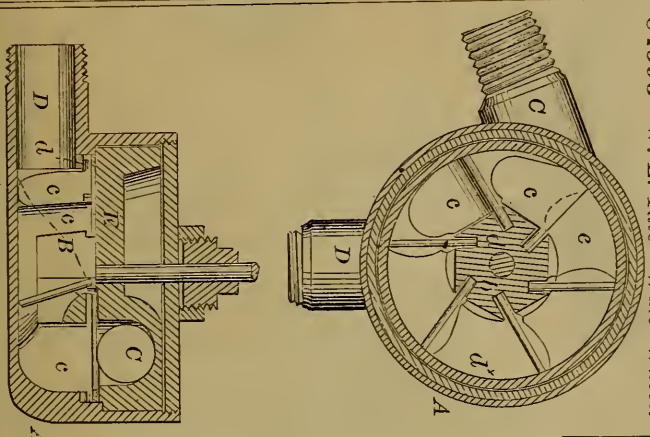
84386—J. Simpson—*Crusher, Harrow and Roller.*



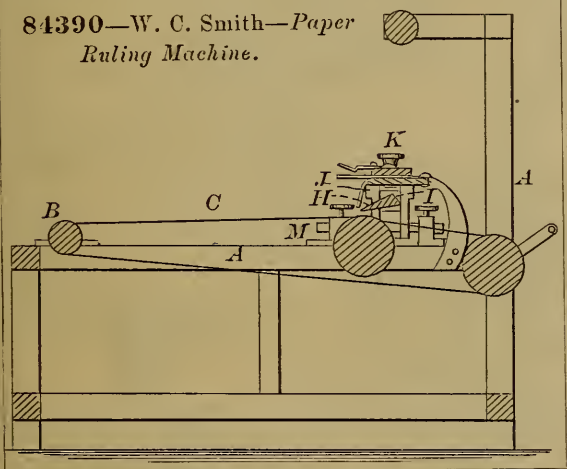
84388—W. B. Smith—*Frame for Protecting Watch Works.*



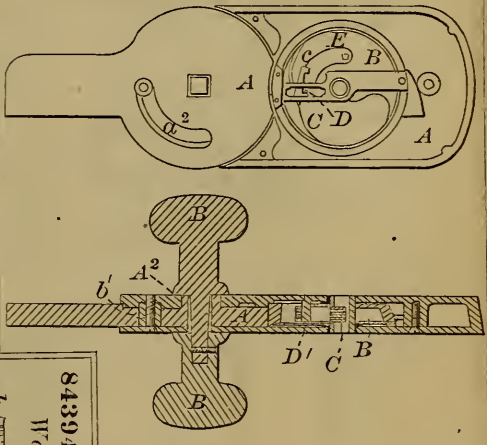
84393—W. E. Tate—*Water Wheel.*



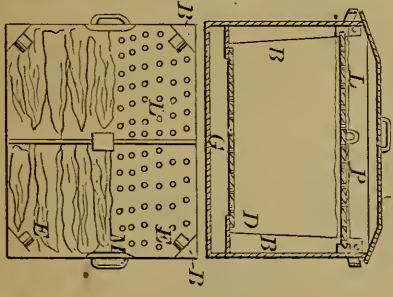
84390—W. C. Smith—*Paper Ruling Machine.*



84391—A. Sprague—*Latch and Lock.*

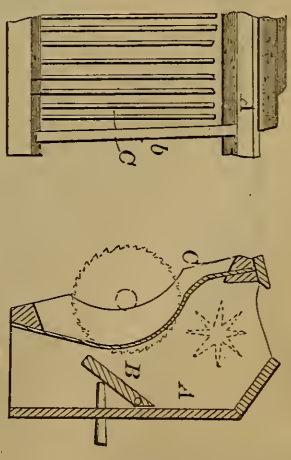


84395—C. A. Totten—*Wash Boiler.*

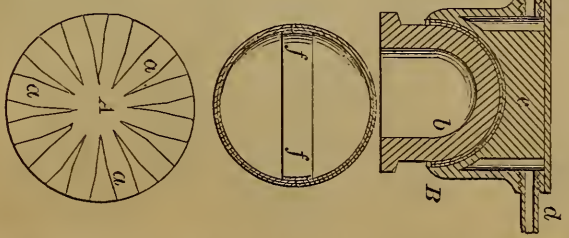


84394—S. J. Thomas—*Water Wheel.*

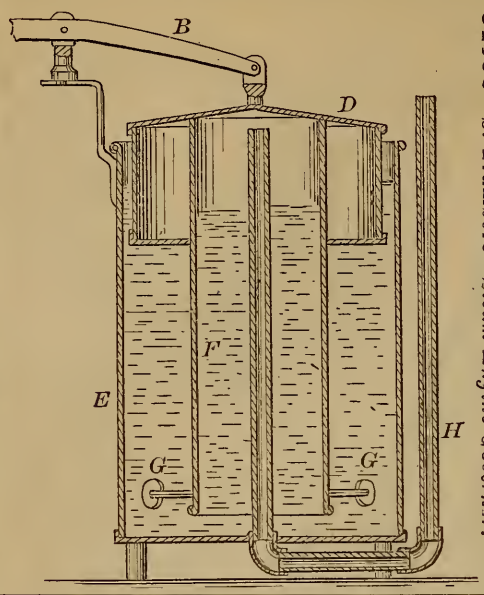
84392—W. Sutton—*Cotton Gin.*



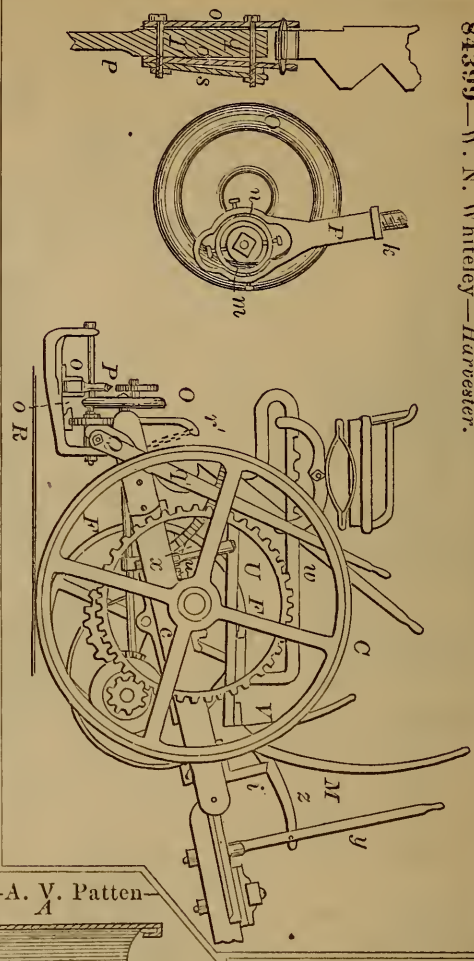
84398—E. Weissenborn—*School Globe.*



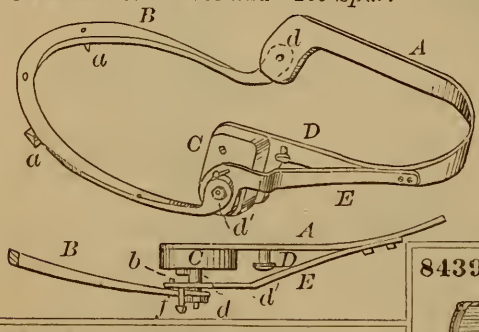
84396—S. Trumbore—*Steam Engine Governor.*



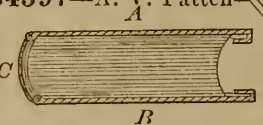
84399—W. N. Whiteley—*Harvester.*



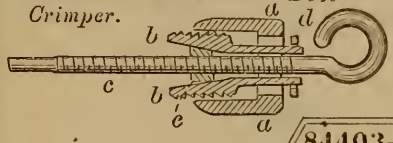
84400—C. F. Wieland—*Ice Spur.*

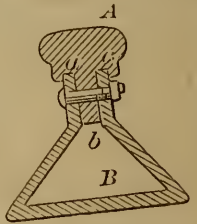


84397—A. V. Patten—*Book Cover Protector.*



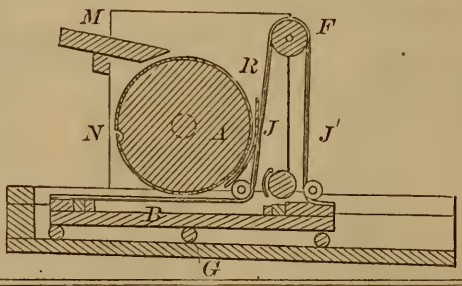
84402—O. M. Adams—*Boot Crimper.*



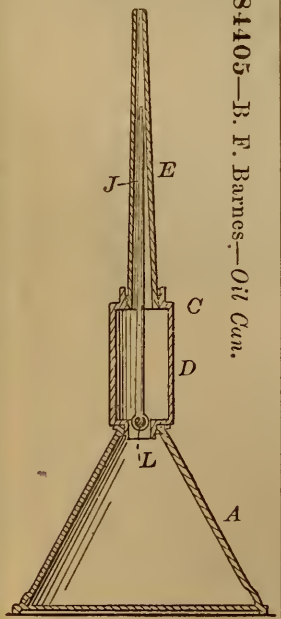


84401—H. Zahn—*Railway Rail.*

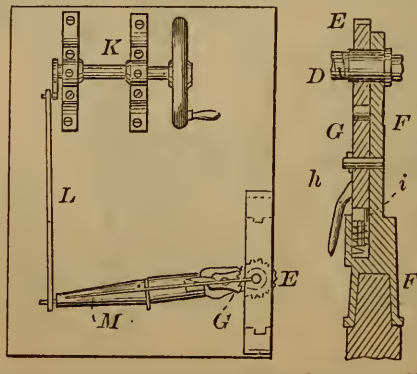
84403—S. J. Baird—*Printing Press.*



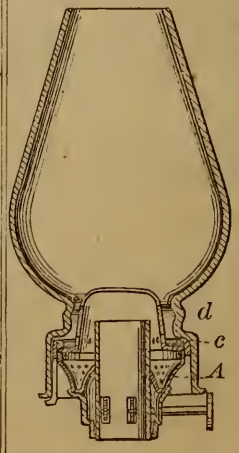
84405—B. F. Barnes—*Oil Can.*



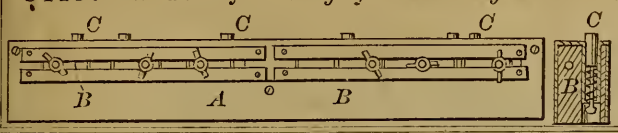
84408—J. S. & W. B. Buell—*Press.*



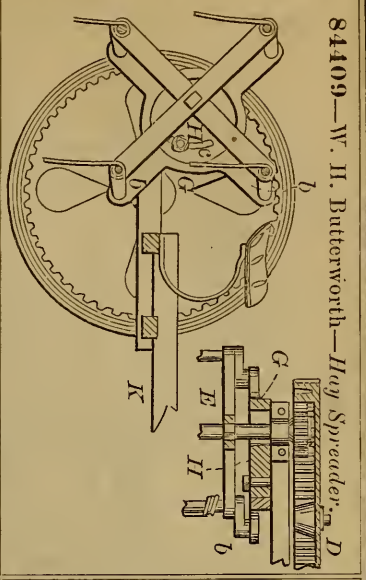
84406—A. Bliss—*Lamp Burner.*



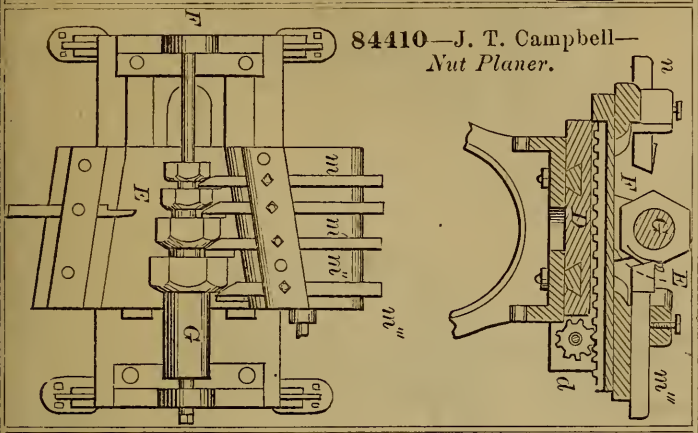
84407—W. P. Boyd—*Gauge for Mortising Window Sash.*



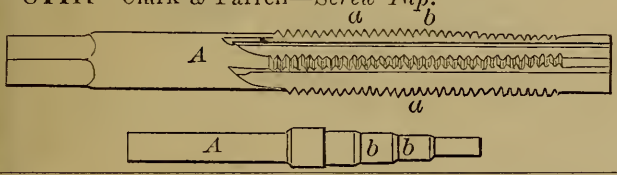
84409—W. H. Butterworth—*Hay Spreader.*



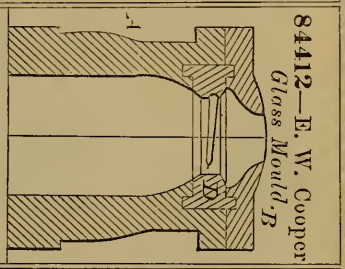
84410—J. T. Campbell—*Nut Planer.*



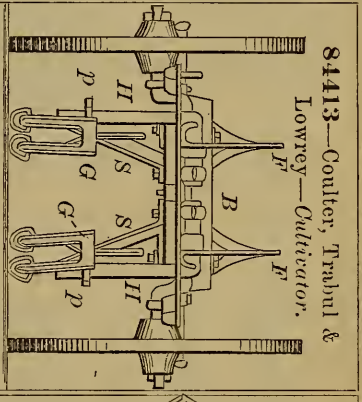
84411—Clark & Farrell—*Screw Tap.*



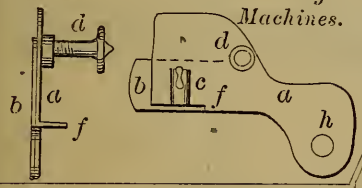
84412—E. W. Cooper—*Glass Mould.*

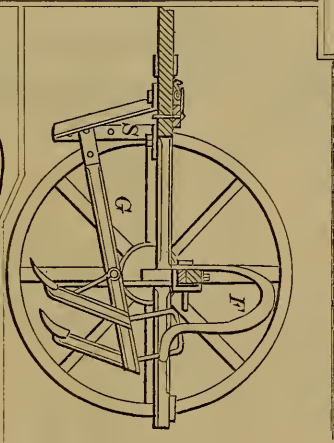


84413—Coulter, Trubul & Lowrey—*Cultivator.*

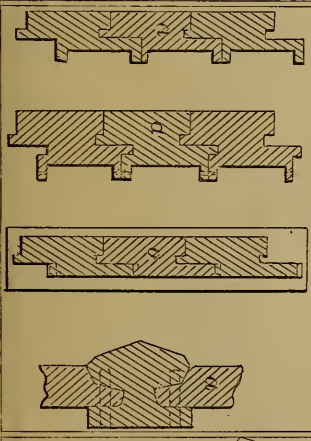


84414—J. Crandell—*Sewing Machines.*

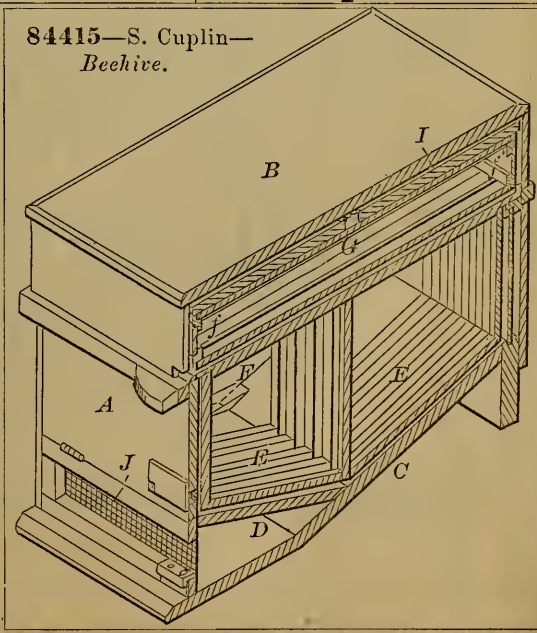


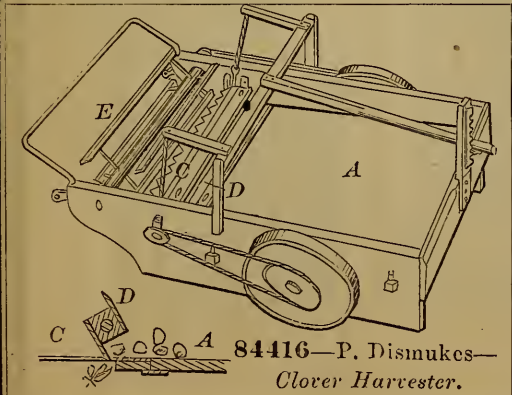


84418—G. J. Günther—*Armor Plating for Vessels.*



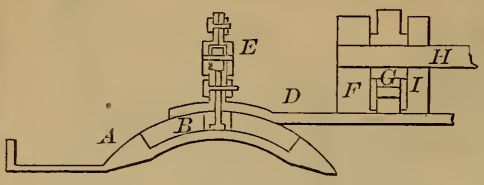
84415—S. Cuplin—*Beehive.*

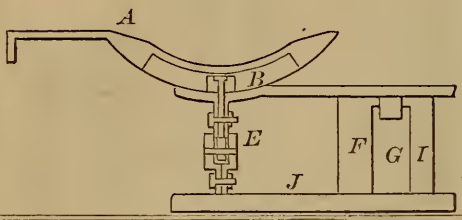




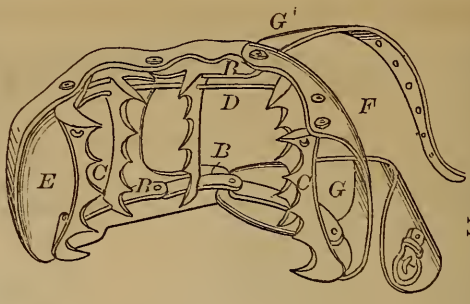
84416—P. Dismukes—*Clover Harvester.*

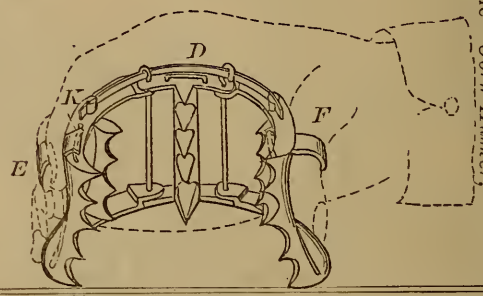
84417—A. Duvall—*Universal Joint.*



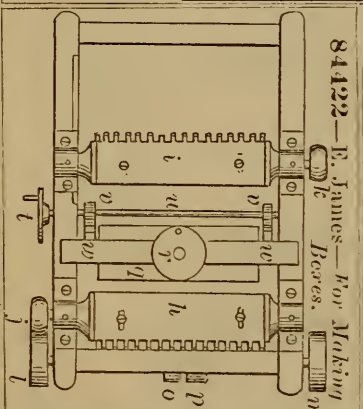


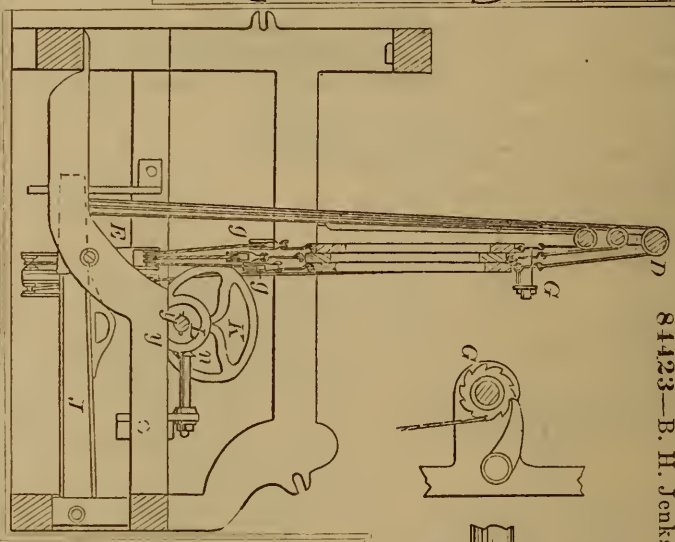
84419—Hatelfinger & Eagle—*Corn Husker, Sheller and Stripper.*



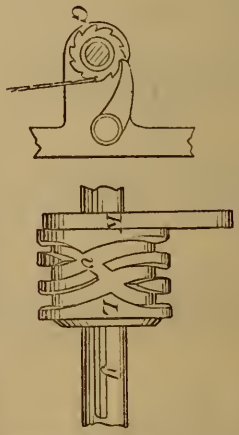


84422—E. James—*For Making Bores.*

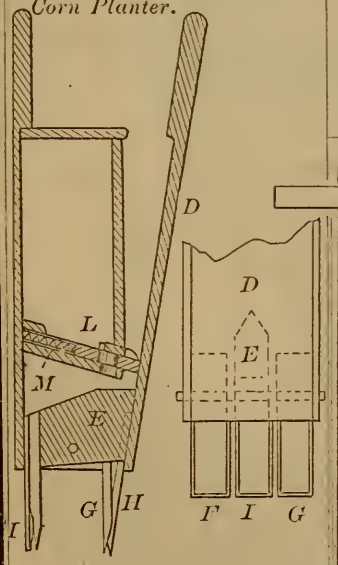




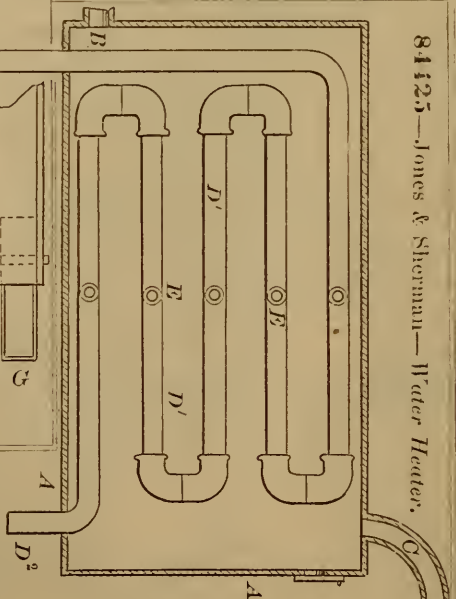
84423—B. H. Jenks—*Loom.*

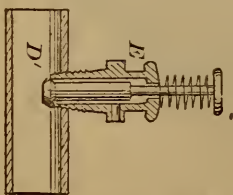


84426—C. A. Kellogg—*Corn Planter.*

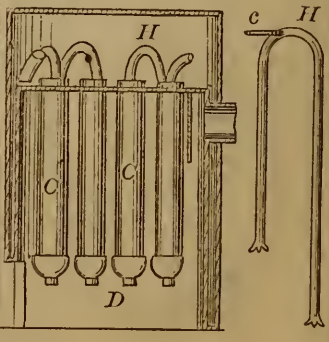


84425—Jones & Sherman—*Water Heater.*

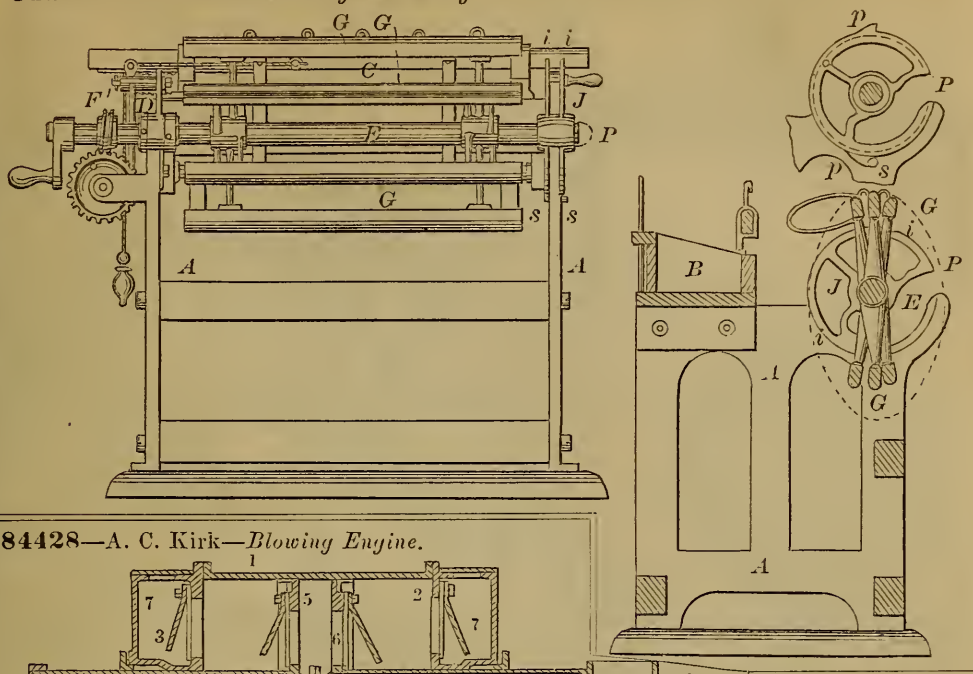




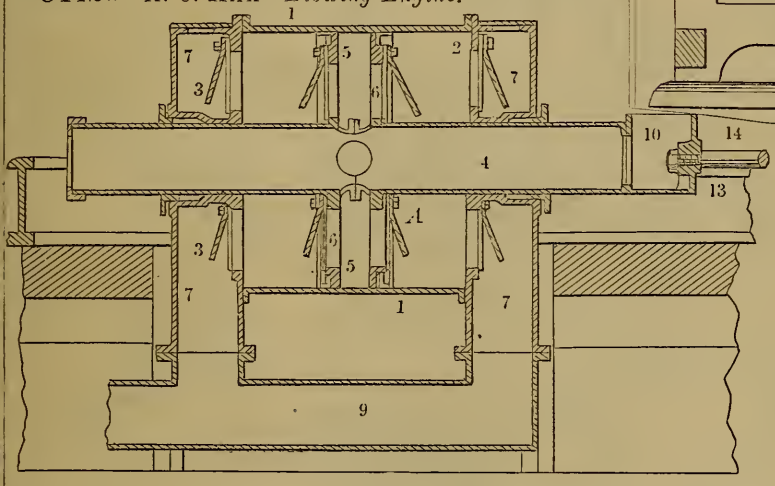
84427—J. C. Kilgore—*Steam Generator.*



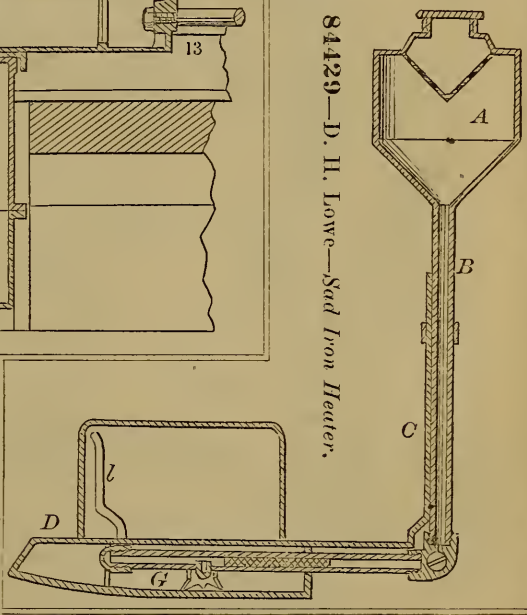
84424—B. H. Jenks—*Reeling Machinery.*

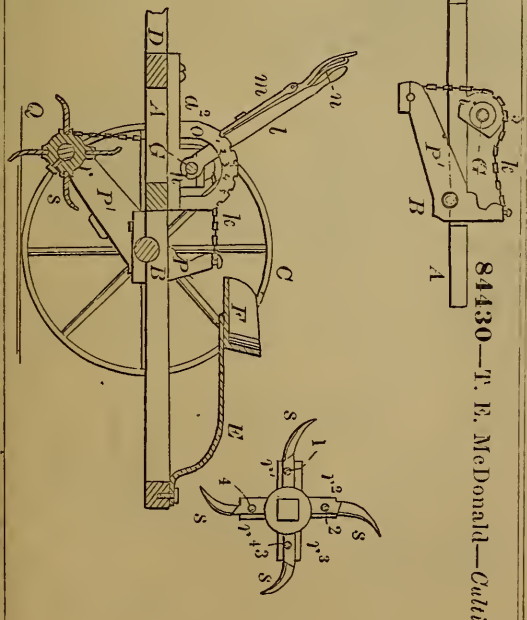


84428—A. C. Kirk—*Blowing Engine.*



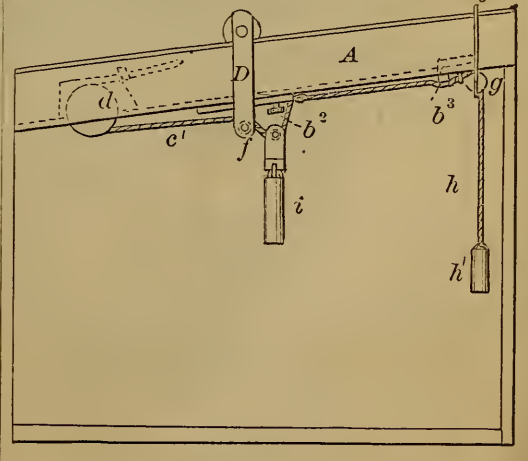
84429—D. H. Lowe—*Sad Iron Heater.*



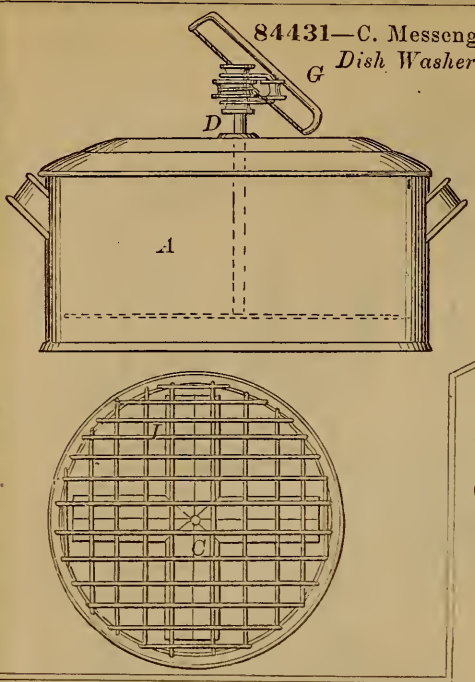


84430—T. E. McDonald—*Cultivator.*

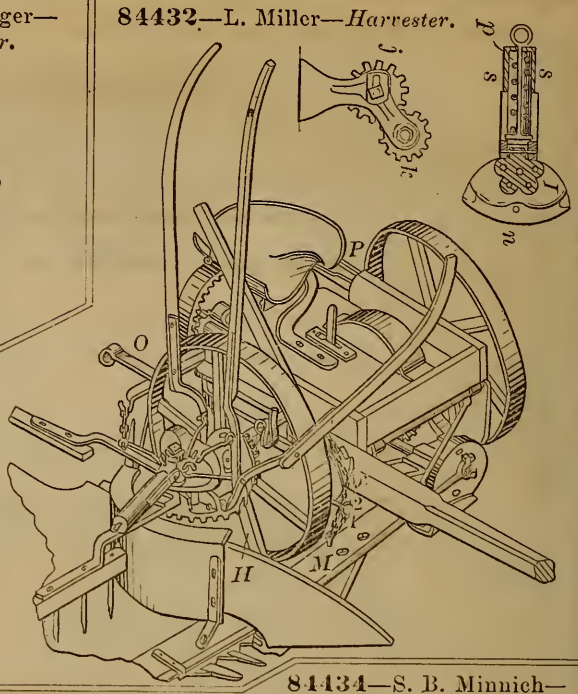
84436—L. Y. Myers—*Elevator and Conveyer.*



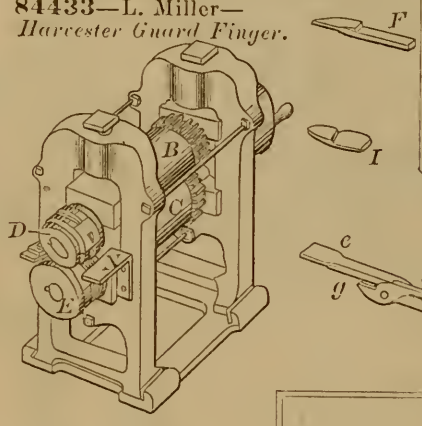
84431—C. Messenger—*Dish Washer.*



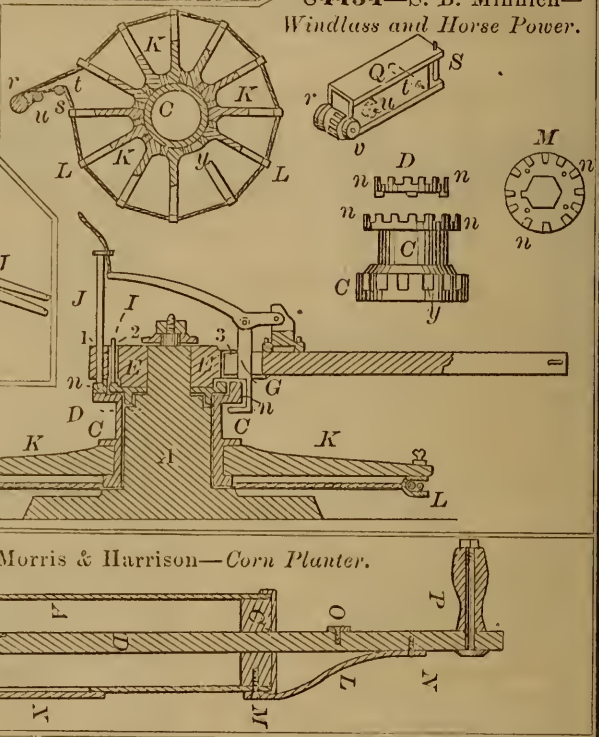
84432—L. Miller—*Harvester.*



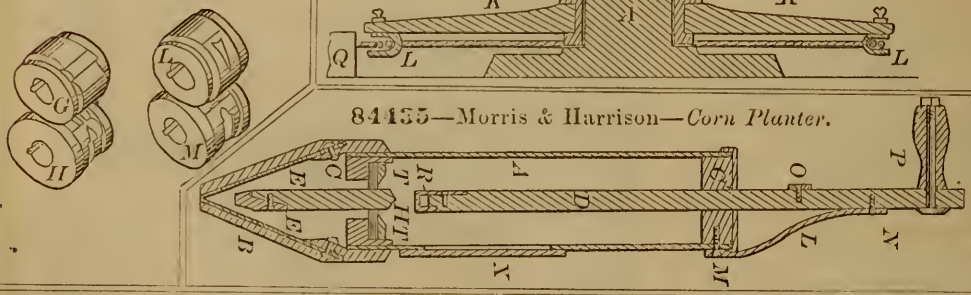
84433—L. Miller—*Harvester Guard Finger.*



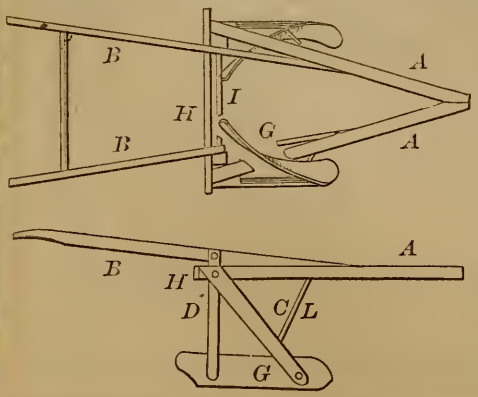
84434—S. B. Minnich—*Windlass and Horse Power.*



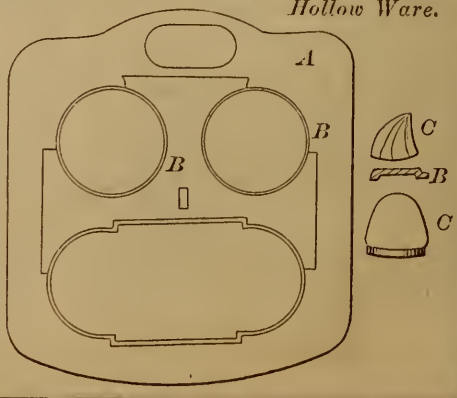
84435—Morris & Harrison—*Corn Planter.*



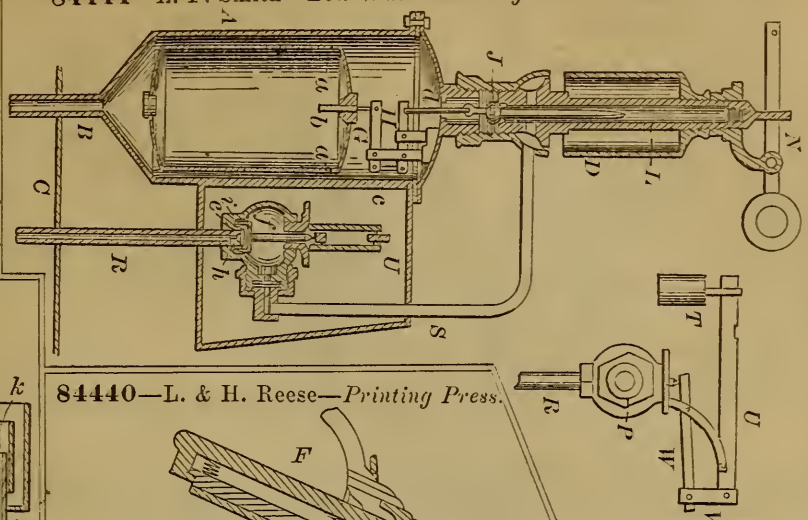
84437—W. Notman—*Plow.*



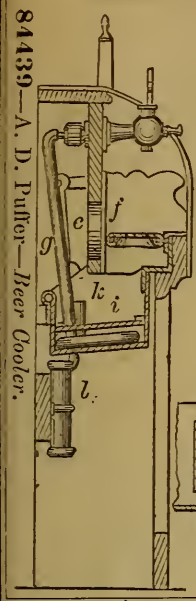
84438—J. Owen—*Pattern for Stoves and Hollow Ware.*



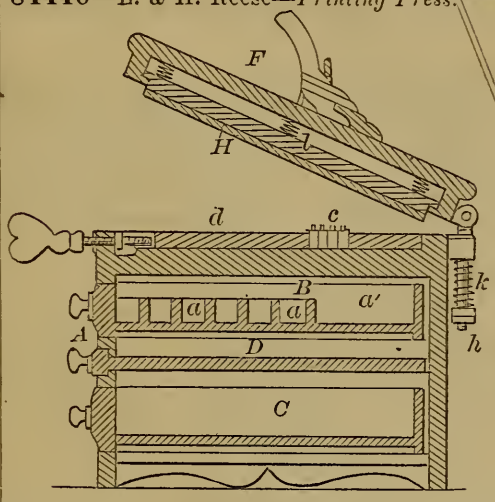
84441—L. F. Smith—*Low Water and High Steam Indicator.*



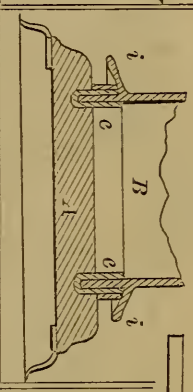
84439—A. D. Puffer—*Beer Cooler.*



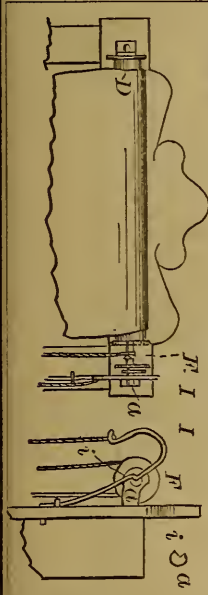
84440—L. & H. Reese—*Printing Press.*



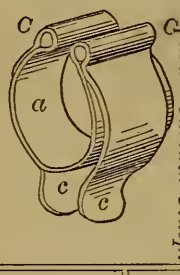
84445—E. M. Stigale—*Case For Preserving Flowers.*



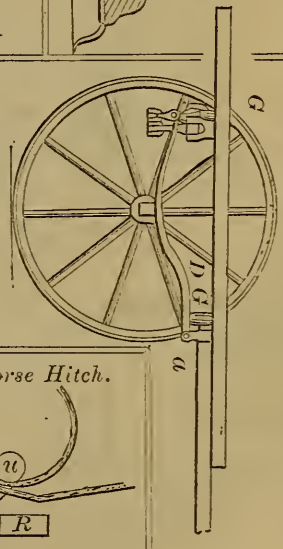
84443—Smith & Foster—*Curtain Fixture.*



84448—Watson & Shepard—*Curtain Clasp.*

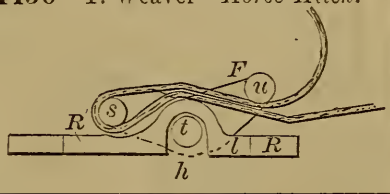


84446—W. F. Vernier—*Carriage Spring.*

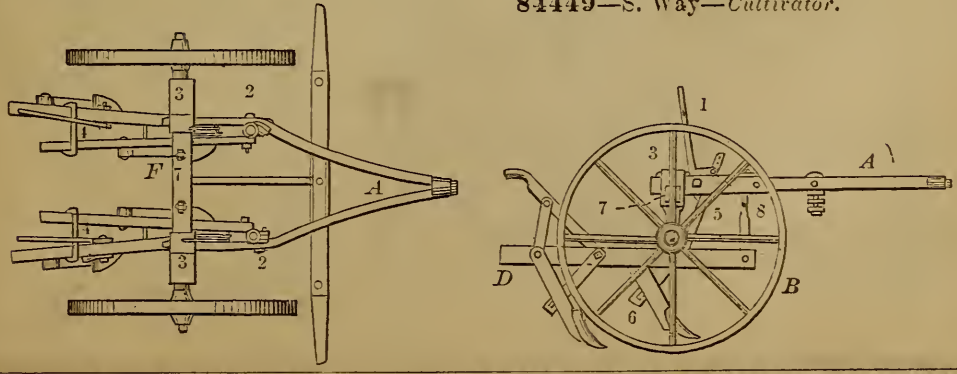


84442—A. C. Smith—*Waste Water Pipe.*

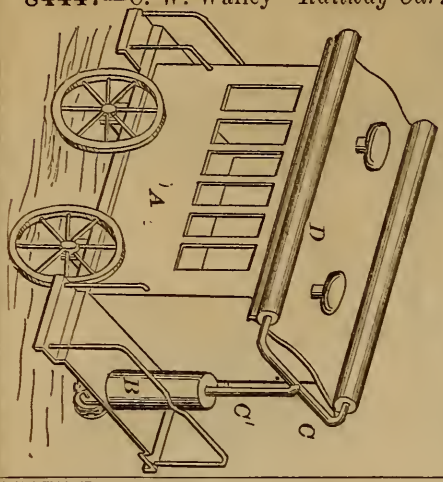
84450—T. Weaver—*Horse Hitch.*



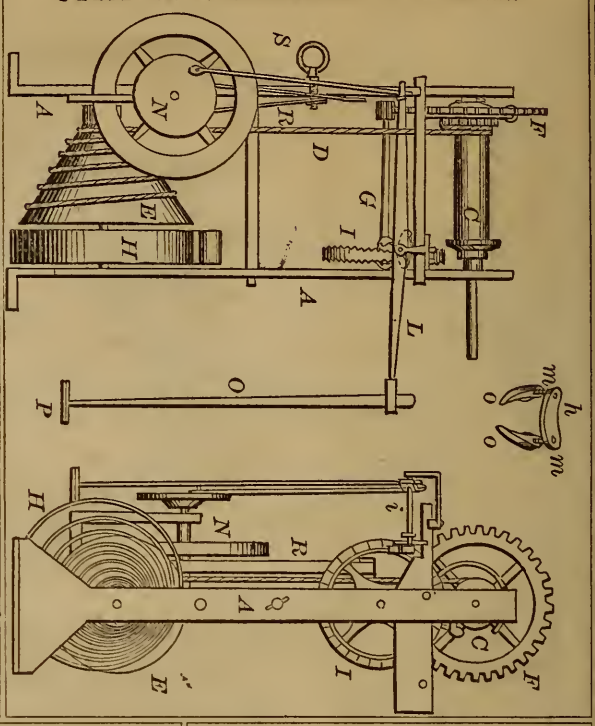
84449—S. Way—*Cultivator.*



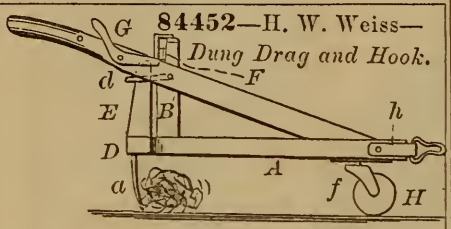
84447—C. W. Wailey—*Railway Car.*

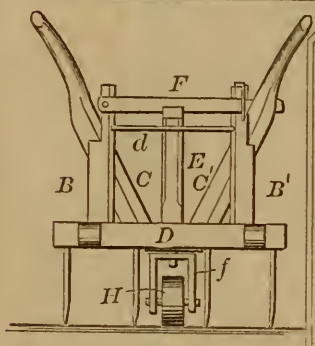


84451—M. Webb—*Mechanical Movement.*

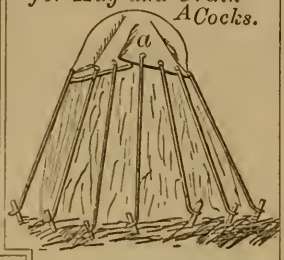


84452—H. W. Weiss—*Dung Drag and Hook.*

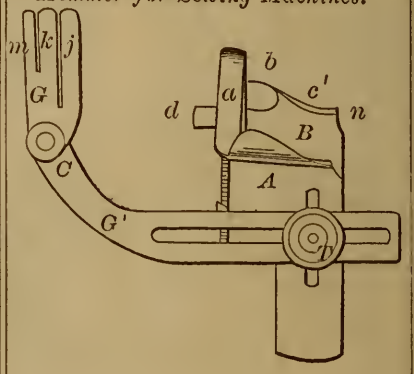


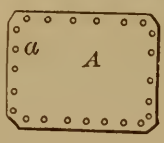


84453—E. R. Whitney—*Cover for Hay and Grain Cocks.*

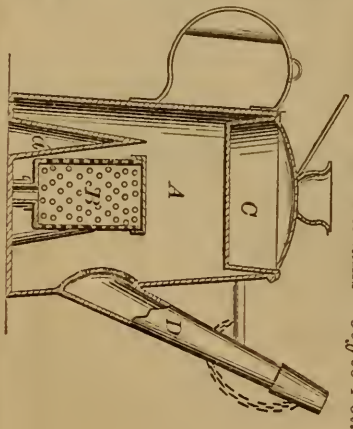


84454—Wilder & Crandell—*Hemmer for Sewing Machines.*

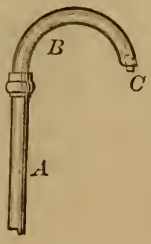




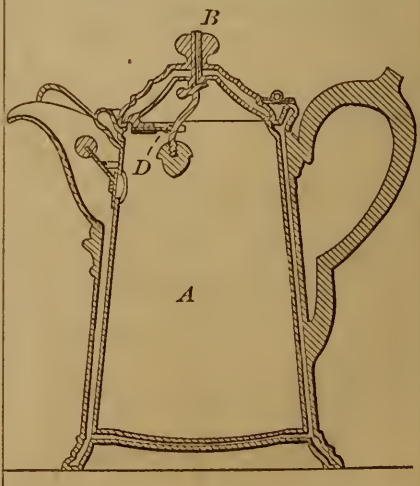
84456—W. M. Williams—*Coffee Pot.*



84457—G. L. Witsil—*Umbrella.*

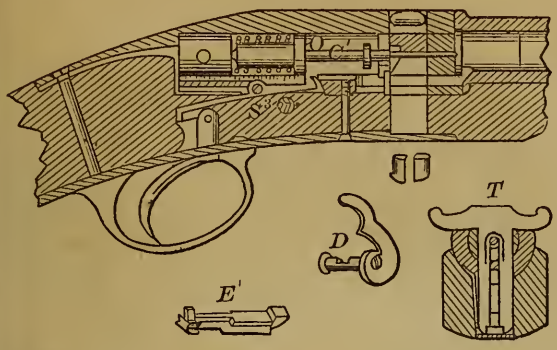


84458—W. C. Wood—*Ice Pitcher.*

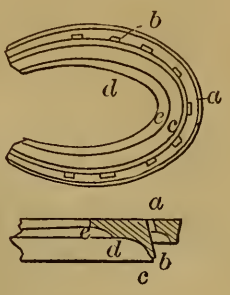


84461—G. F. Fessenden—*Toy Target.*

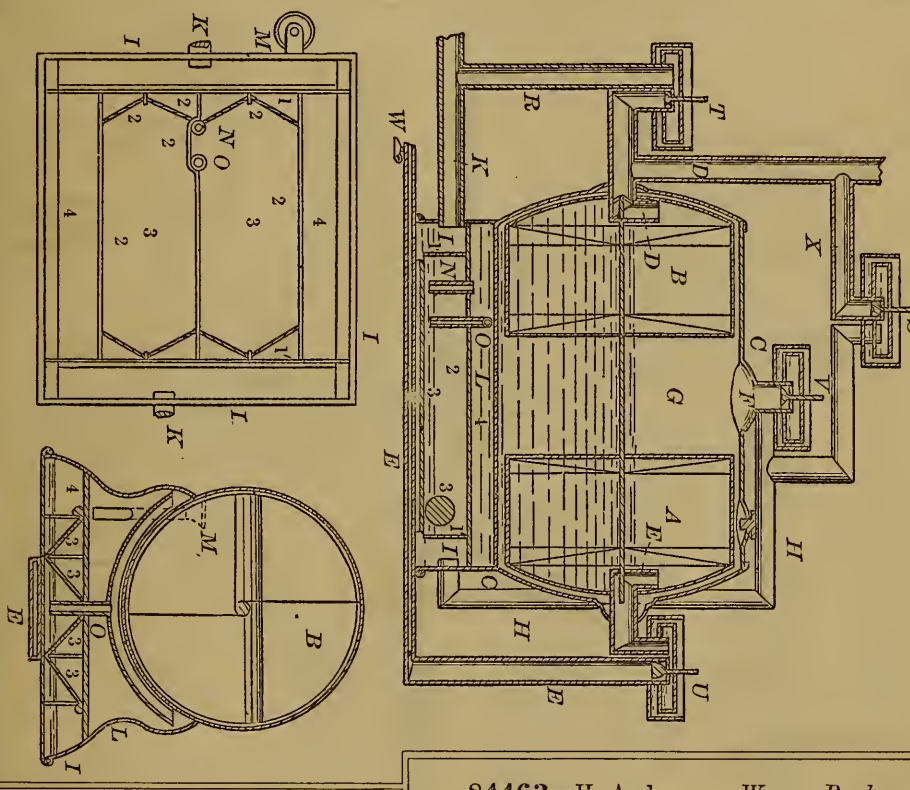
84459—A. Wyley—*Fire Arm.*



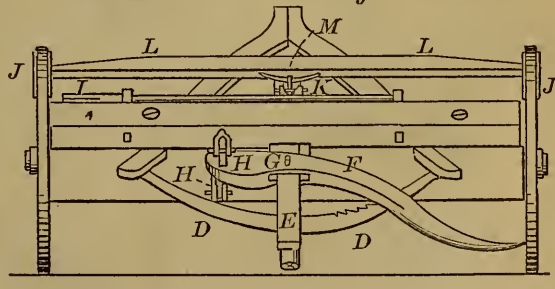
84462—W. C. Whitmore—
Horse Shoe.



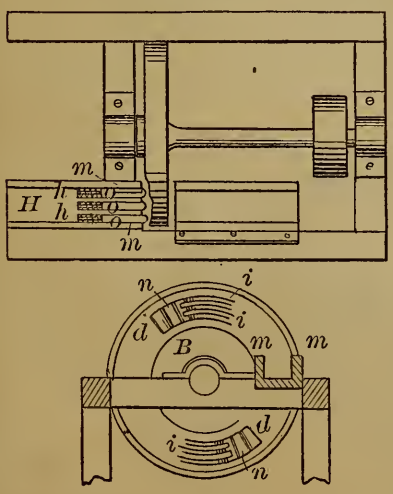
84460—E. H. & W. H. Covel—*Gas Machine.*



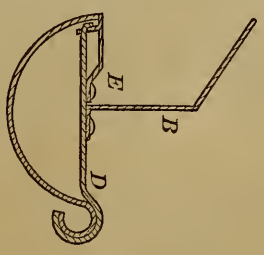
84463—H. Anderson—*Wagon Brake.*



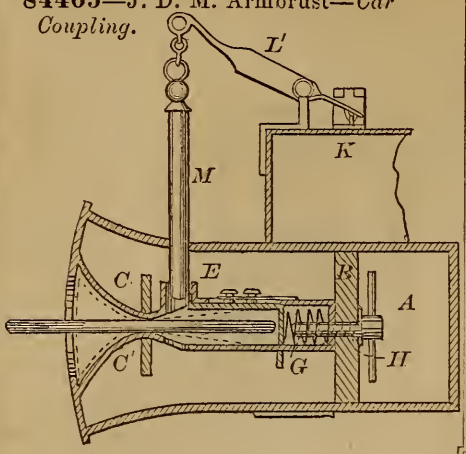
84464—Andrews & Tucker—
Match Machine.



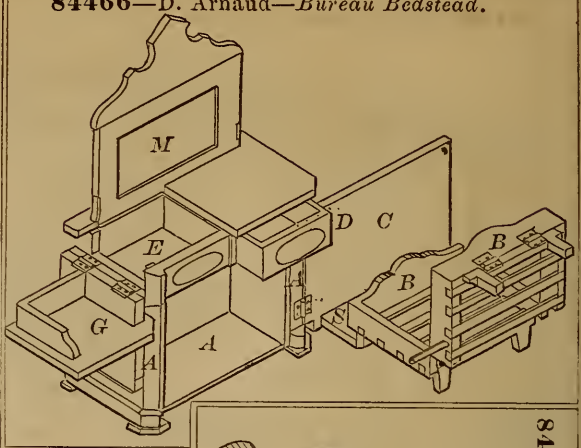
84467—D. Arter—
Eaves Trough Hanger.

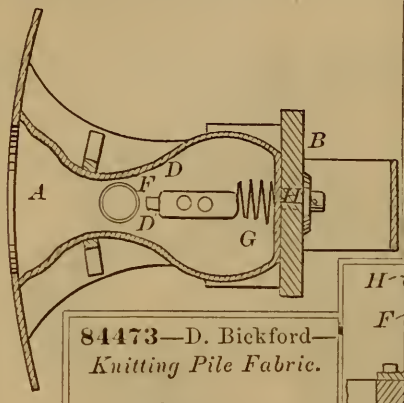


84465—J. D. M. Armbrust—*Car Coupling.*

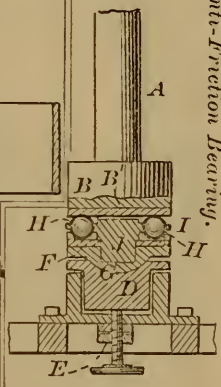


84466—D. Arnaud—*Bureau Bedstead.*

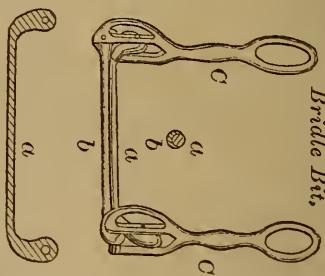




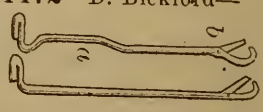
84470—Barnett, Purinton & Seibert—*Anti-Friction Bearing.*



84469—A. P. Baldwin—*Bridle Bit.*



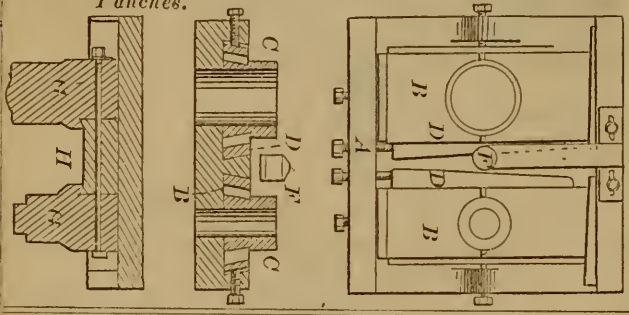
84472—D. Bickford—



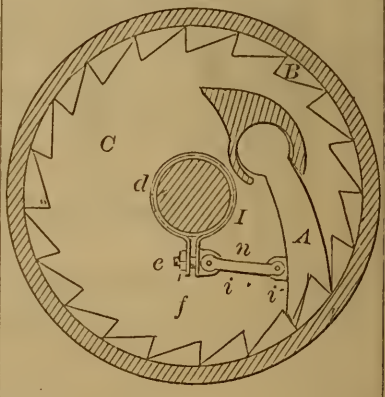
Needle for Knitting Machines.

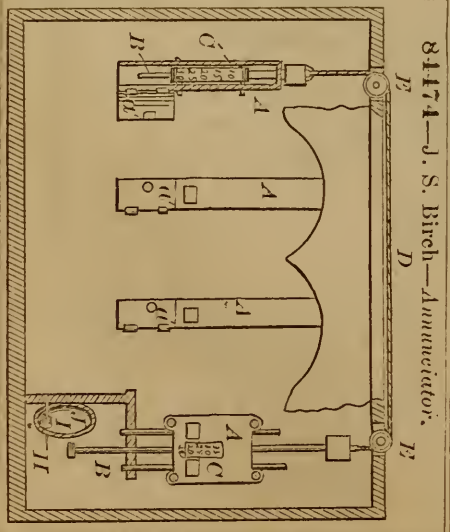
84473—D. Bickford—*Knitting Pile Fabric.*

84468—P. E. Austin—*Holding and Adjusting Dies and Punches.*



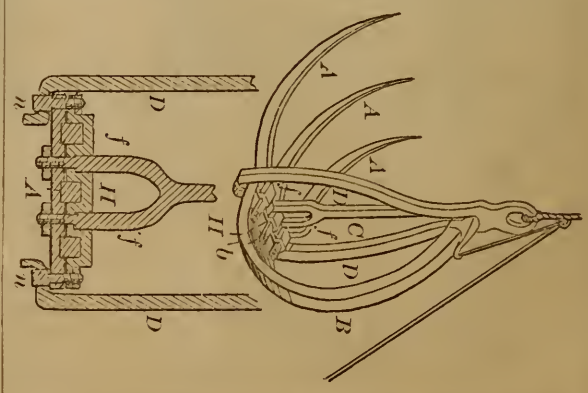
84475—Burt & Hildreth—*Harvester.*



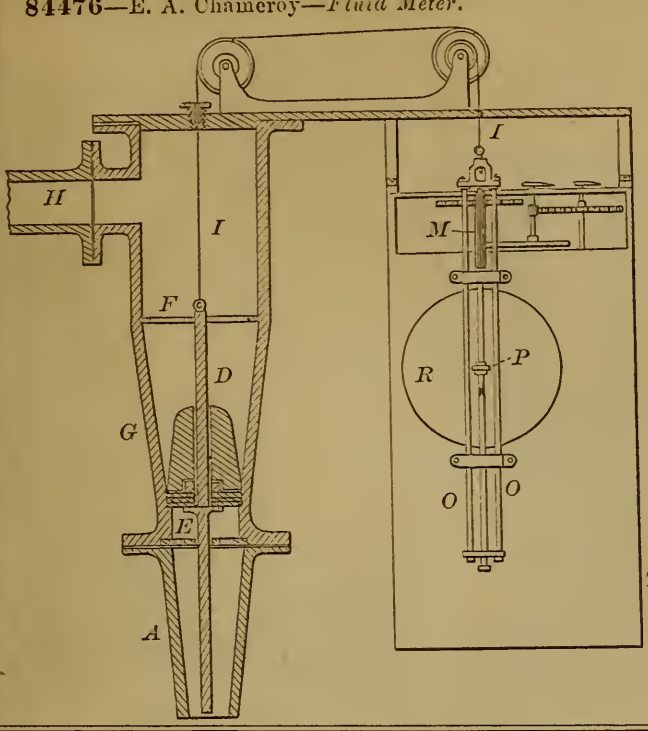


84474—J. S. Birch—*Annunciator.*

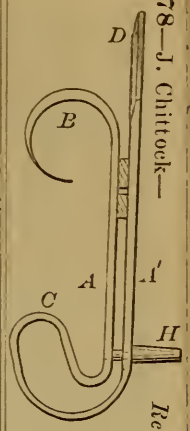
84477—Cheney & Kimball—*Horse Hay Fork.*



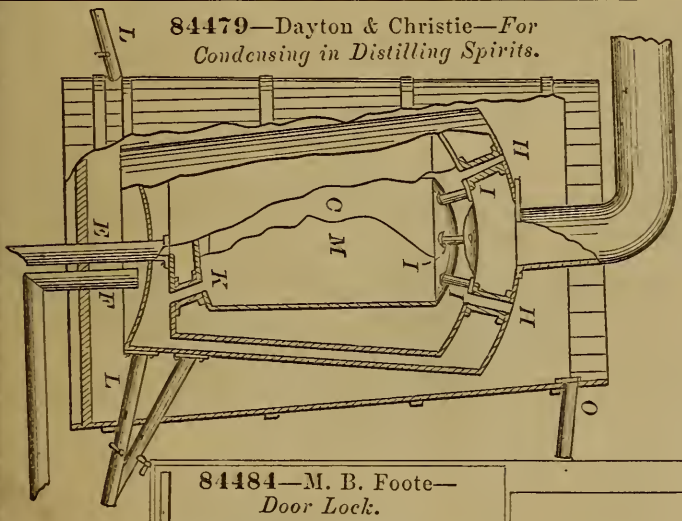
84476—E. A. Chameroy—*Fluid Meter.*



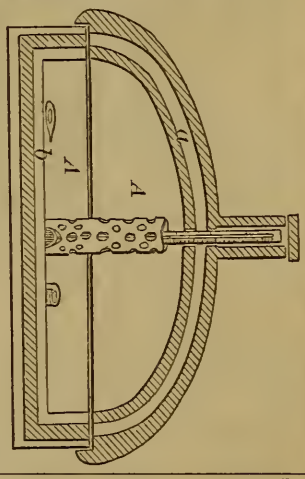
84478—J. Chittock—*Rein Holder.*



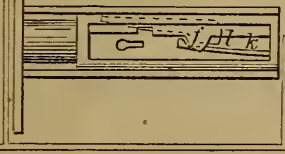
84479—Dayton & Christie—*For Condensing in Distilling Spirits.*



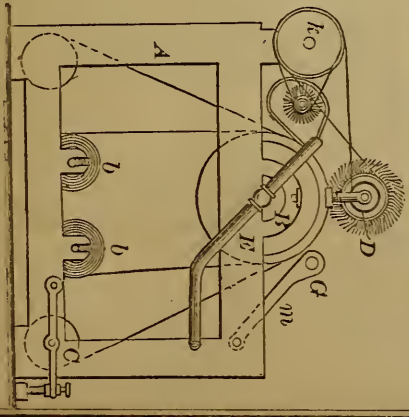
84480—H. J. Dickerson—*Working Steel and Iron.*

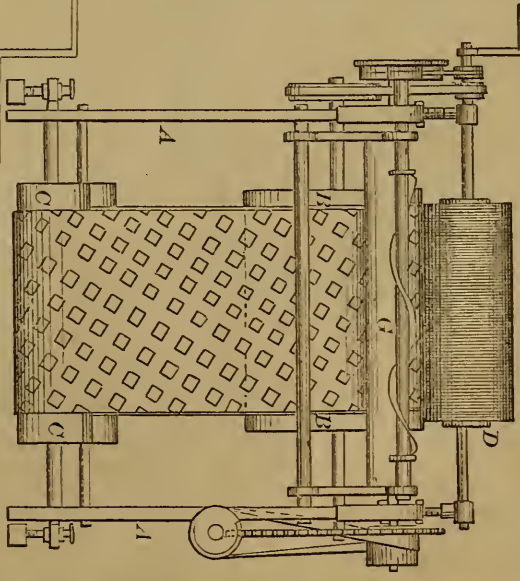


84484—M. B. Foote—*Door Lock.*

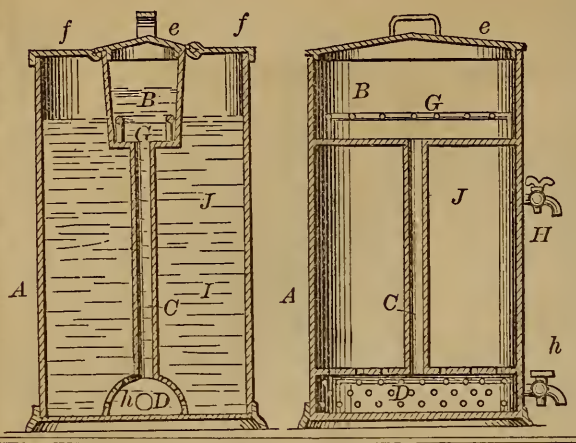


84483—J. Earnshaw—*For Finishing Cloth.*

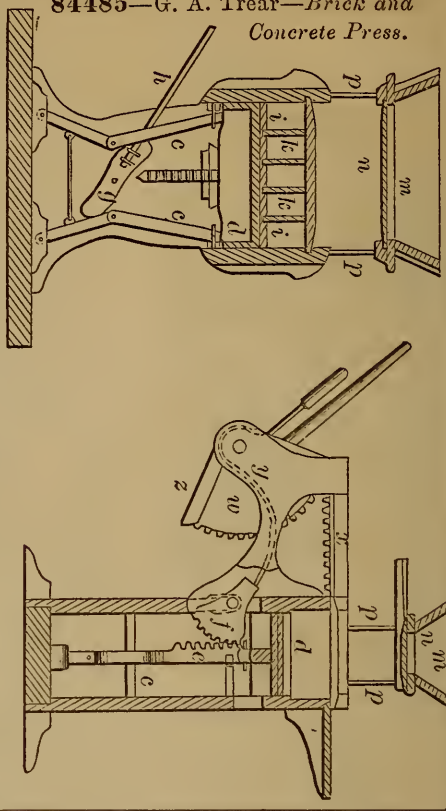




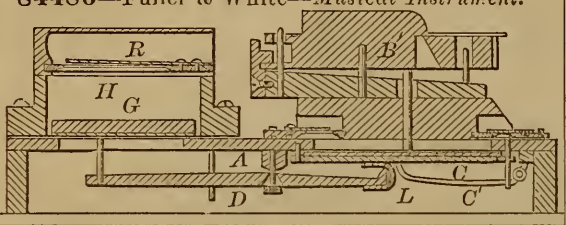
84482—N. Downes—*Filter and Cooler.*



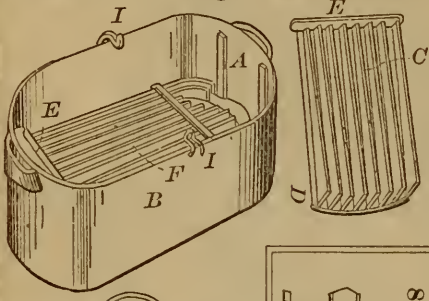
84485—G. A. Trear—*Brick and Concrete Press.*



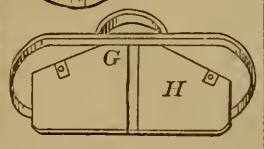
84486—Fuller & White—*Musical Instrument.*



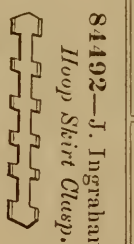
84487—L. Granger—*Wash Boiler.*



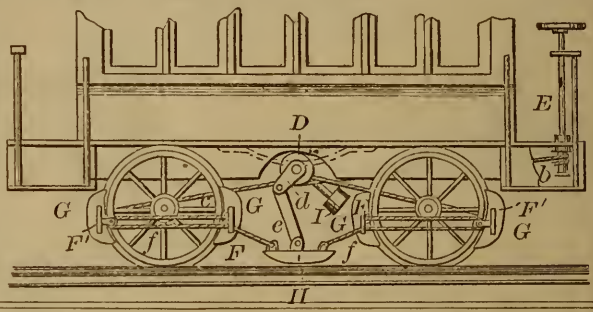
84488—T. M. Hart—*Washer for Carriages.*



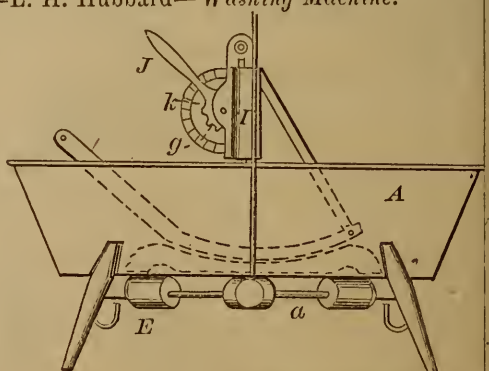
84492—J. Ingraham—*Hoop Skirt Clasp.*

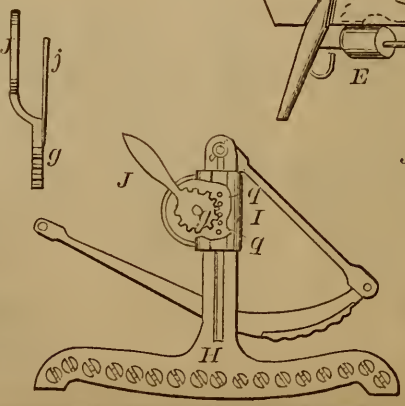


84490—J. Hirst—*Car Brake.*

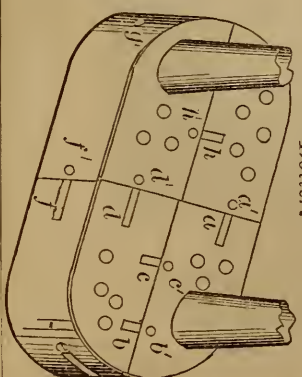


84491—L. H. Hubbard—*Washing Machine.*

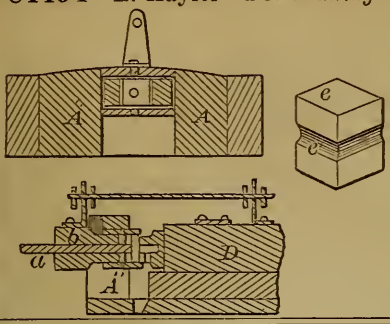




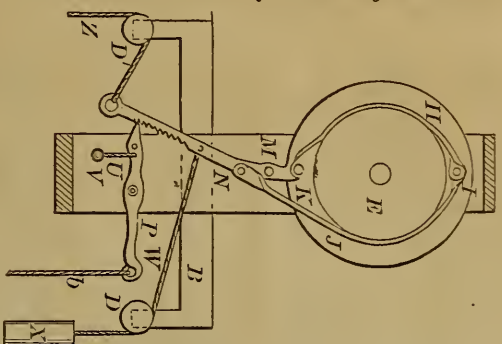
84493—W. F. Jenkins—*Wash Boiler.*



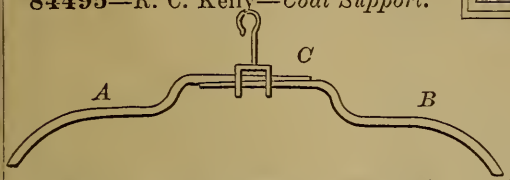
84494—E. Kaylor—*For Making Nuts.*



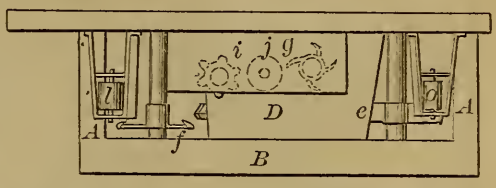
84496—J. Kennedy—*Hoisting Machine.*



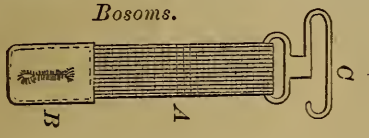
84495—R. C. Kelly—*Coat Support.*

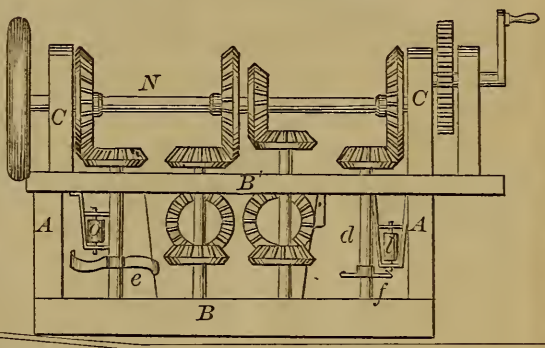


84500—J. Maley—*For Crozing Barrels.*

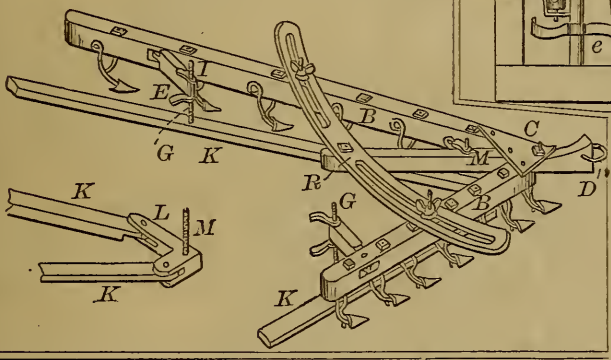


84498—J. R. Little—*Stay for Shirt Bosoms.*

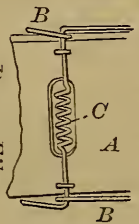




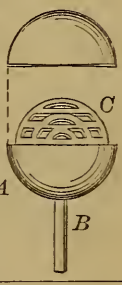
84499—C. Lobdell—*Cultivator and Seeder.*

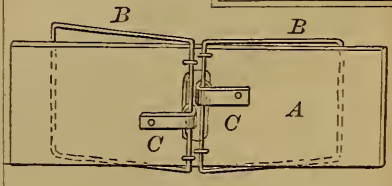


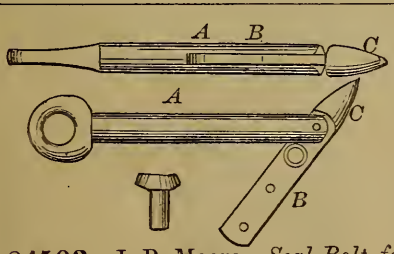
84505—L. H. Olmstead—*Paper File.*



84502—H. McGann—*Boiler Hoist.*



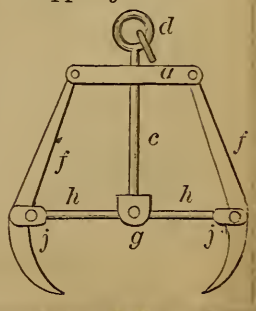




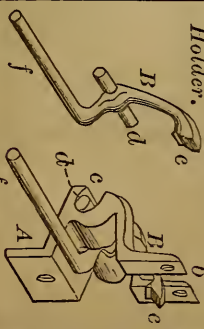
84503—J. P. Moore—*Seal Bolt for Railway Cars.*

84501—G. Humphrys—*Envelope.*

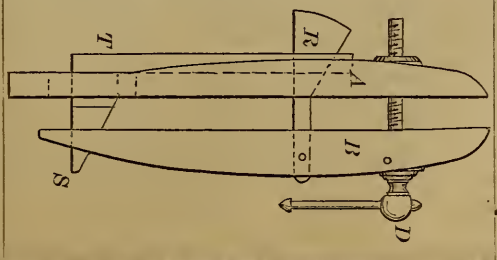
84510—E. J. Ricker—*Grappling Hook.*



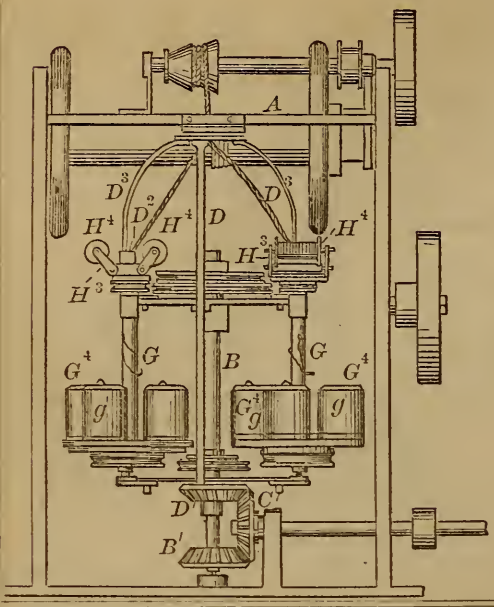
84504—J. Obreiter—*Sash Holder.*



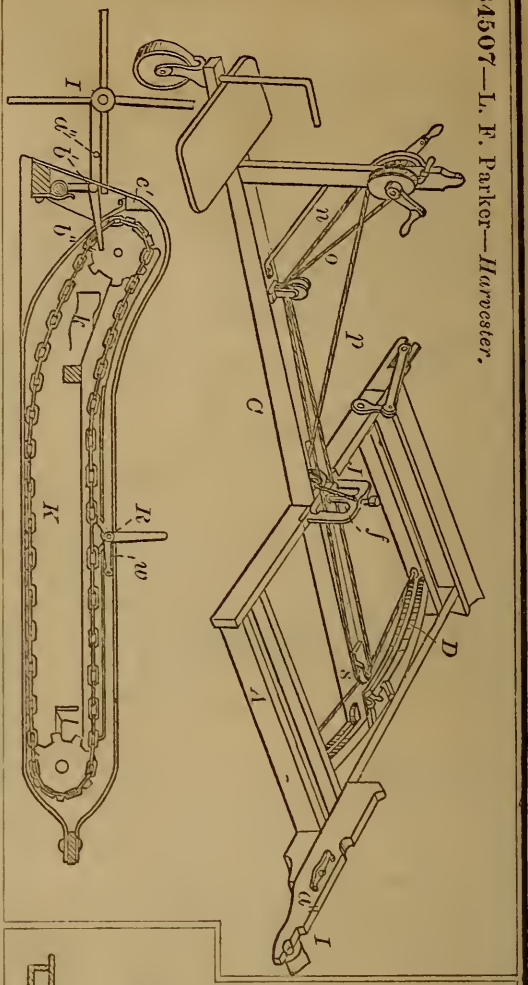
84508—J. Pickering—*Bench Vise.*



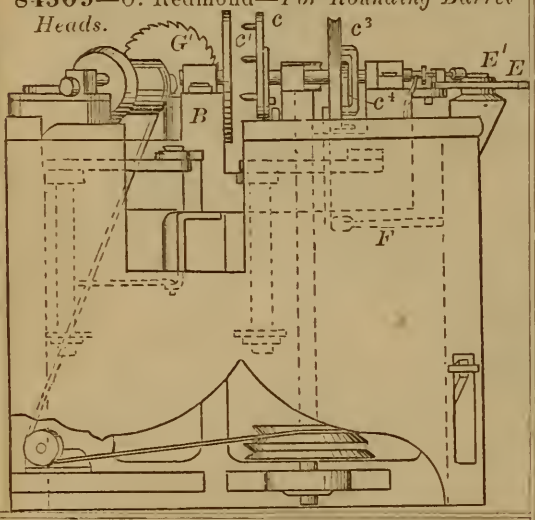
84506—W. H. Palmer—*Cord Covering Machine.*



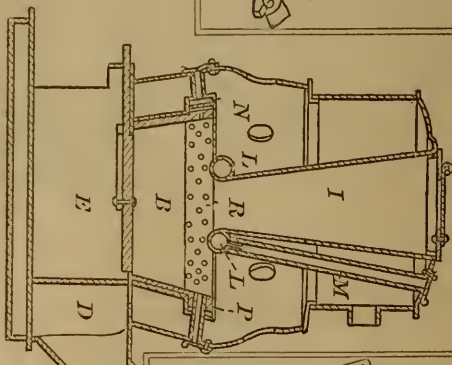
84507—L. F. Parker—*Harvester.*



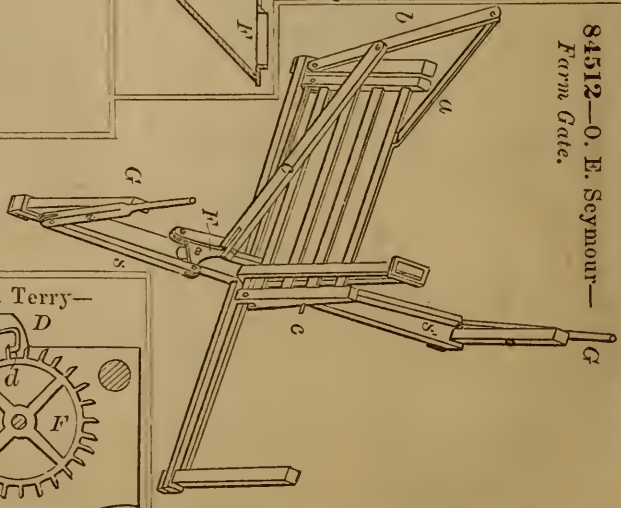
84509—O. Redmond—*For Rounding Barrel Heads.*



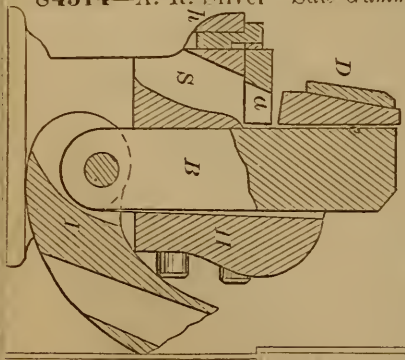
84511—L. N. Ross—*Stove.*



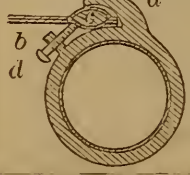
84512—O. E. Seymour—*Farm Gate.*



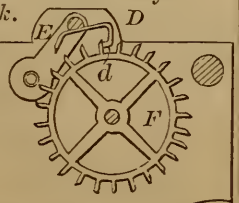
84514—A. R. Silver—*Saw Gummer.*



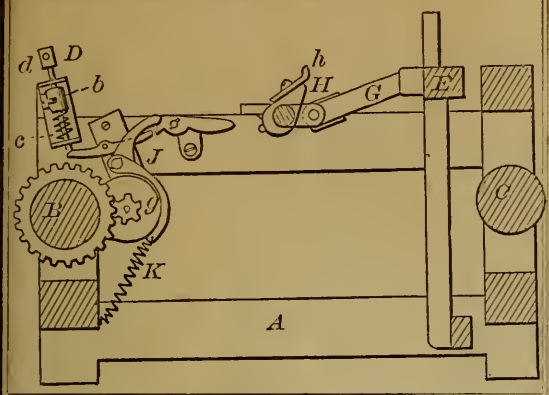
84513—B. N. Shelley—*Whip Socket Fastening.*



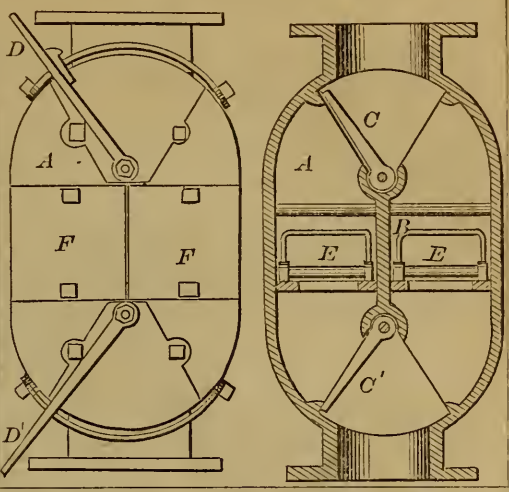
84517—S. B. Terry—*Clock.*



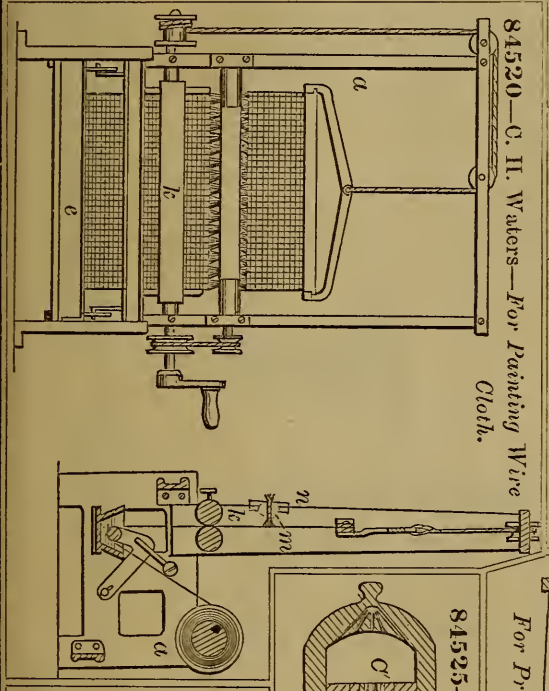
84515—T. S. Smith—*Loom.*



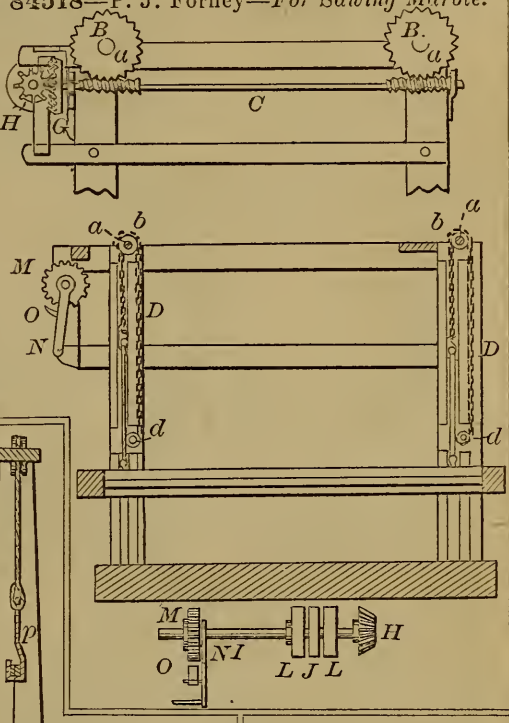
84516—M. C. Taylor—*Pump Valve Chamber.*



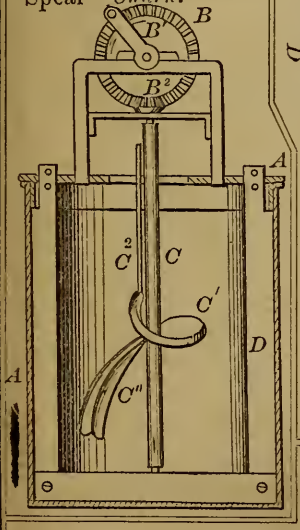
84520—C. H. Waters—*For Painting Wire Cloth.*



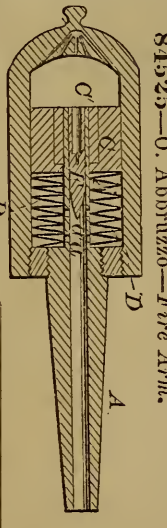
84518—P. J. Forney—*For Sawing Marble.*



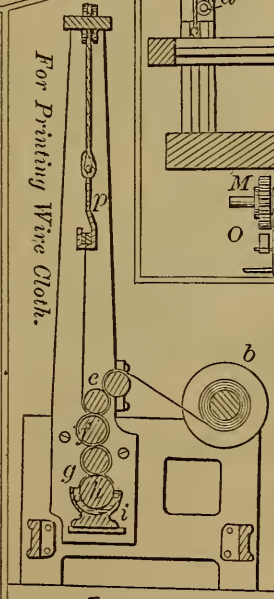
84524—Wood & Spear—*Churn.*



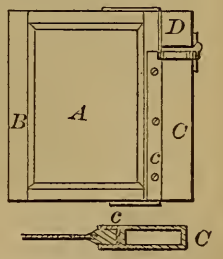
84525—O. Abbruzzo—*Fire Arm.*



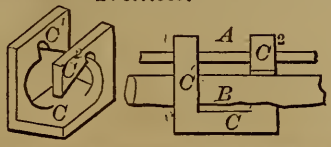
84521—C. H. Waters—*For Printing Wire Cloth.*



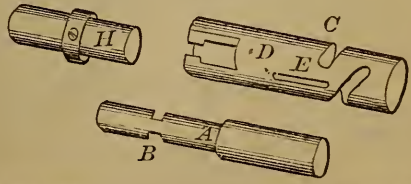
84522—C. J. Wirth—*Slate Frame.*



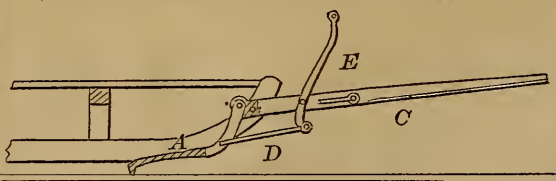
84519—E. F. Underhill—*For Attaching Vines to Trellises.*



84523—F. A. Wood—*Bit Brace.*



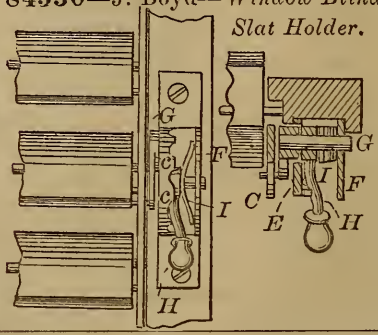
84526—J. M. Ackerson—*Sled Brake.*



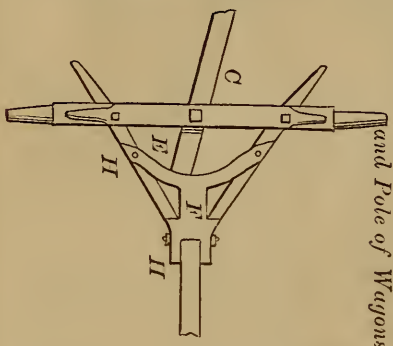
84527—A. B. Bean—*Ratchet Feed.*

84529—B. Boardman—*File Handle.*

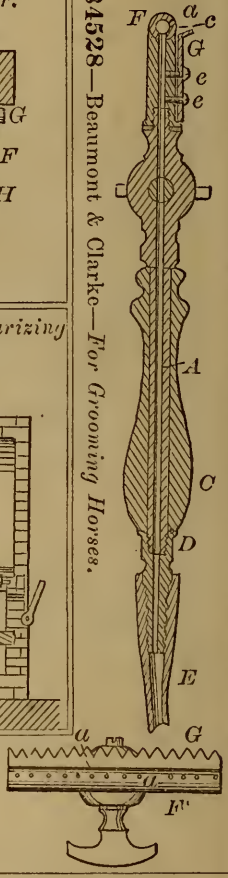
84530—J. Boyd—*Window Blind Slat Holder.*



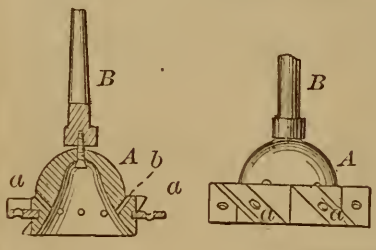
84531—F. Bremerman—*Hound and Pole of Wagons.*



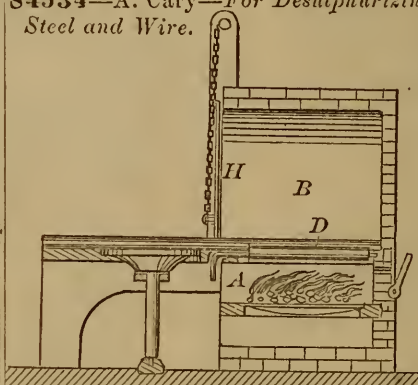
84528—Beaumont & Clarke—*For Grooming Horses.*



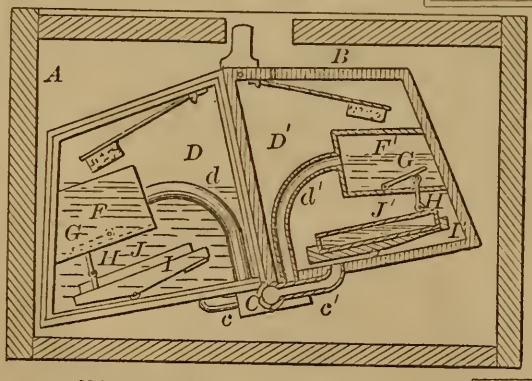
84532—A. P. Bryson—*Churn.*

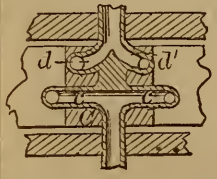


84534—A. Cary—*For Desulphurizing Steel and Wire.*

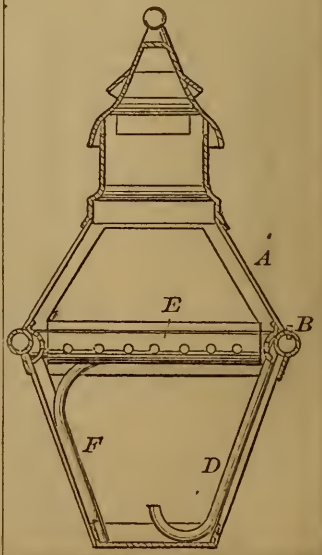


84533—I. Carey—*Water Meter.*

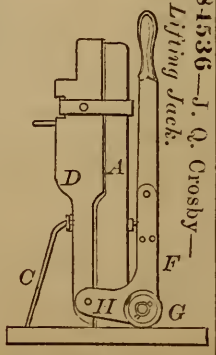




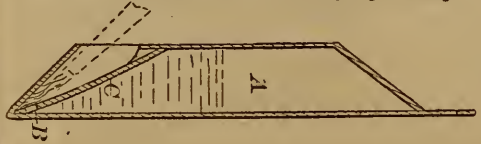
84535—Case & Evans—*Street Lamp.*



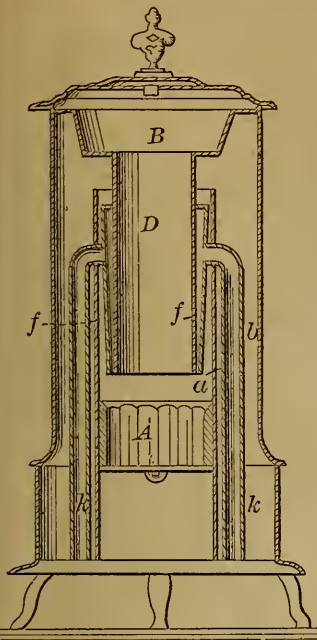
84536—J. Q. Crosby—*Lifting Jack.*



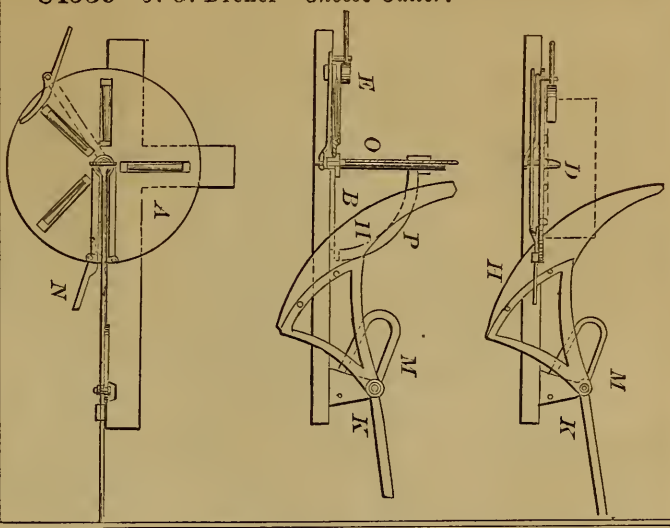
84538—H. T. Davis—*Damping Trough.*



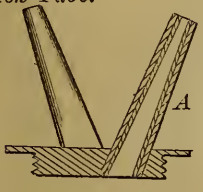
84537—S. Culver—*Stove.*



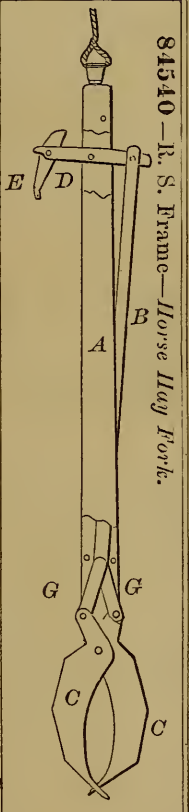
84539—J. G. Dreher—*Cheese Cutter.*



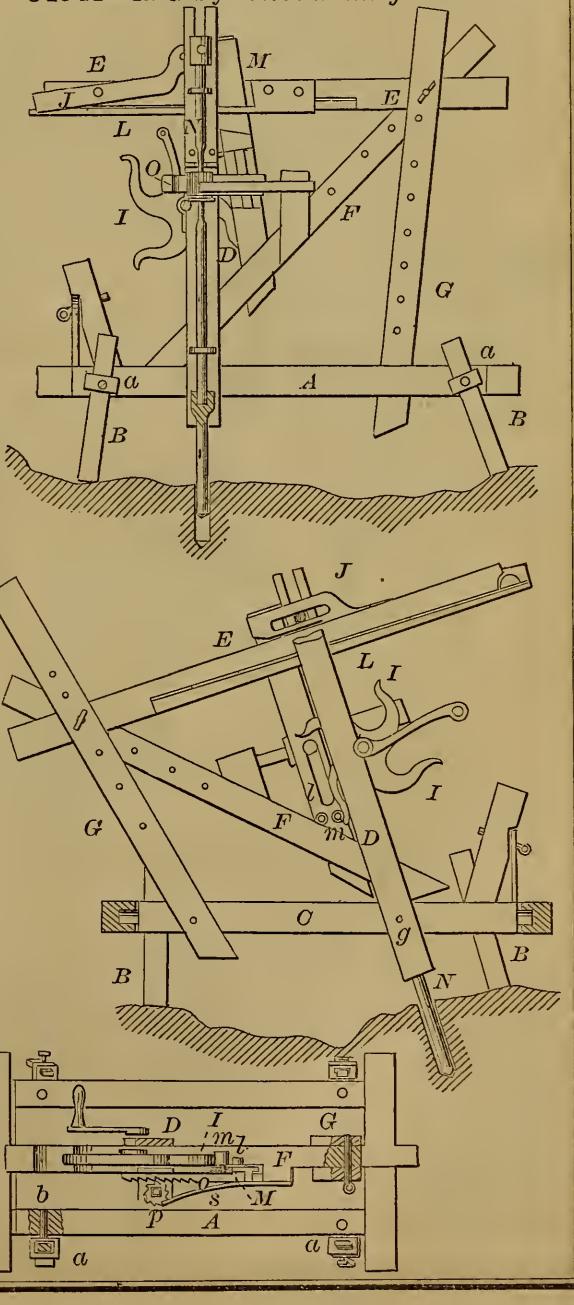
84542—Fuller & Severance—*Lamp Wick Tube.*



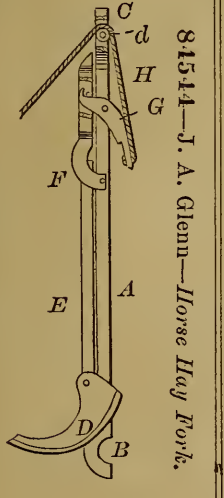
84540—R. S. Frame—*Horse Hay Fork.*



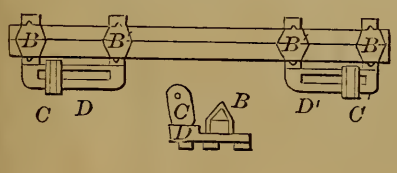
84543—R. Gidly—*Rock Drilling Machine.*



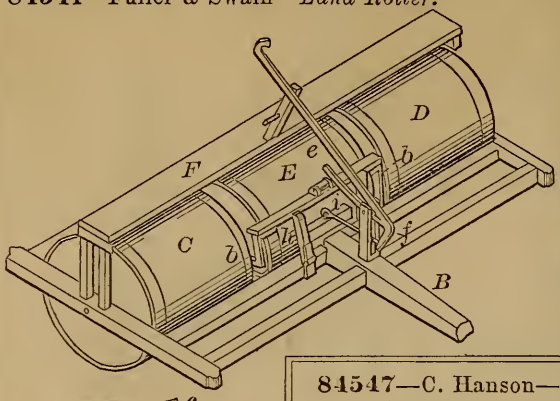
84544—J. A. Glenn—*Horse Hay Fork.*

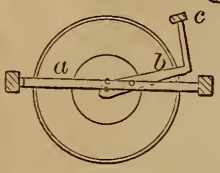


84545—A. W Ham—*Shifting Jack for Carriage Thills.*

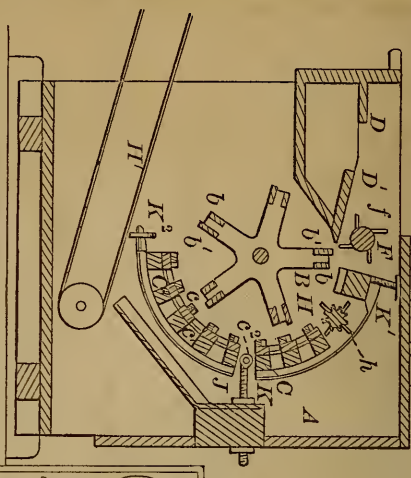


84541—Fuller & Swain—*Land Roller.*

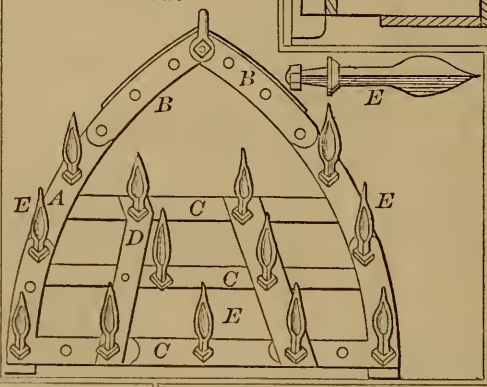


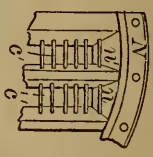


84546—H. Hanna—*Threshing Machine.*

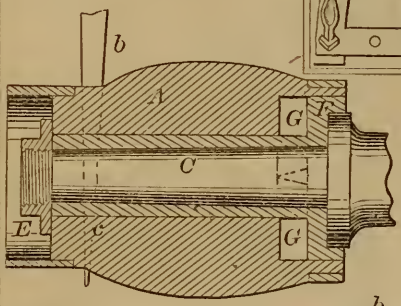


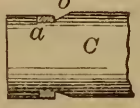
84547—C. Hanson—*Harrow.*

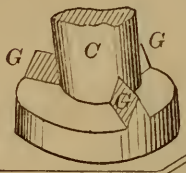




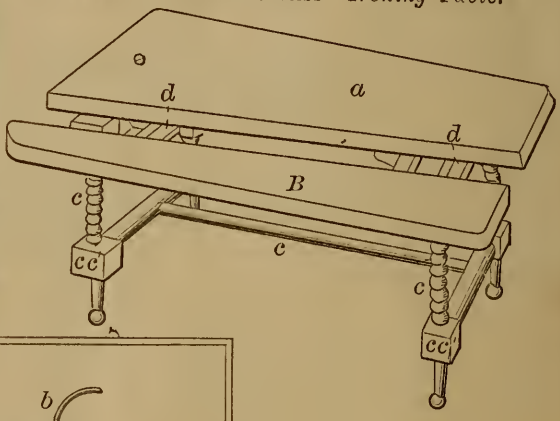
84548—
C. H. Holdredge—*Box for Carriage Wheels.*

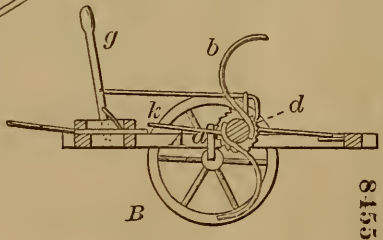




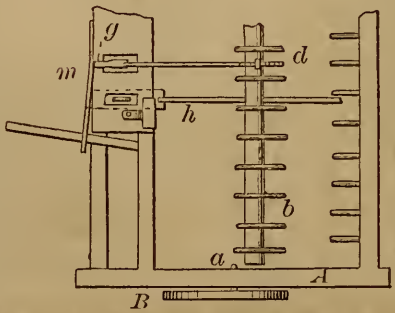


84549—O. C. Hotchkiss—*Ironing Table.*

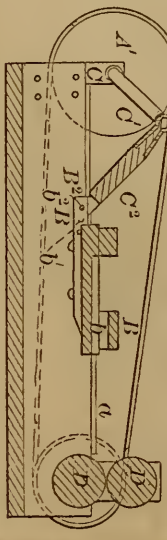




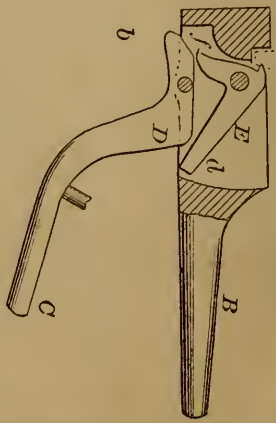
84551—A. B. Johnson—*Horse Rake*



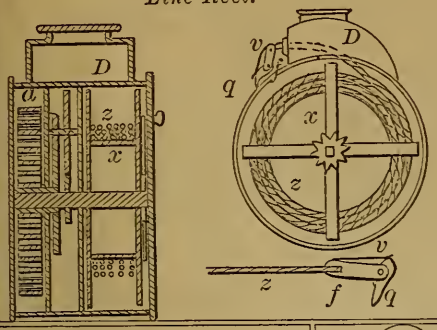
84552—A. C. Kaiser—*Knife Cleaner.*



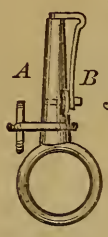
84553—H. Kime—*Calk Sharpener.*



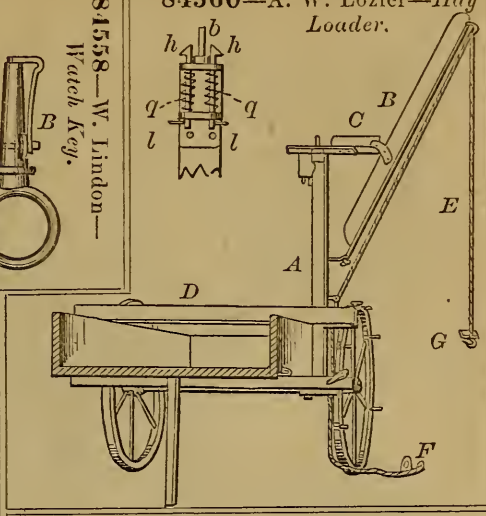
84554—M. V. B. Knowles—*Chalk Line Reel.*



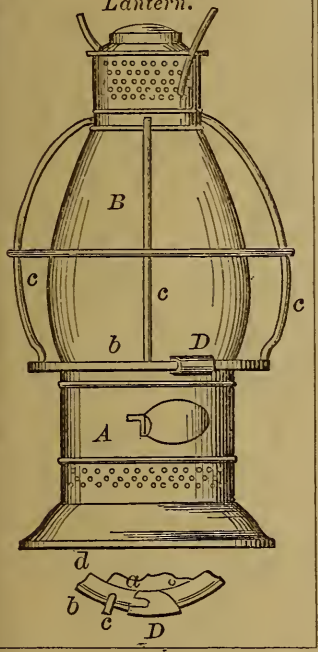
84558—W. Lindon—*Watch Key.*



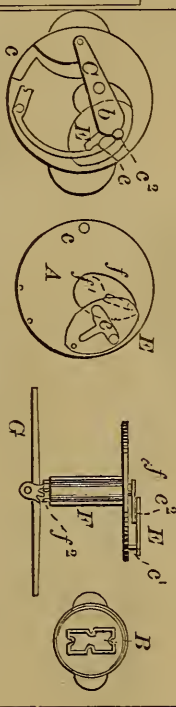
84560—A. W. Lozier—*Hay Loader.*



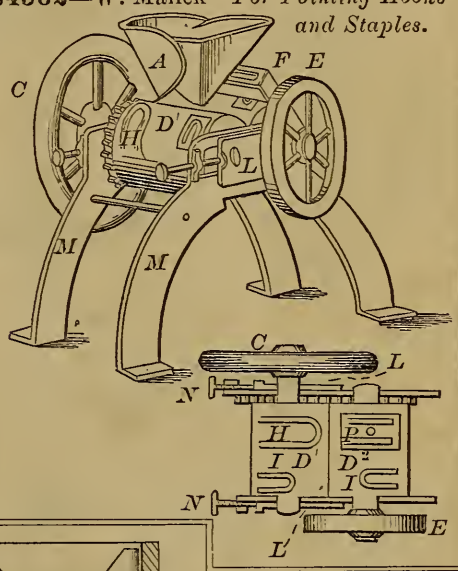
84556—T. Langston—*Lantern.*



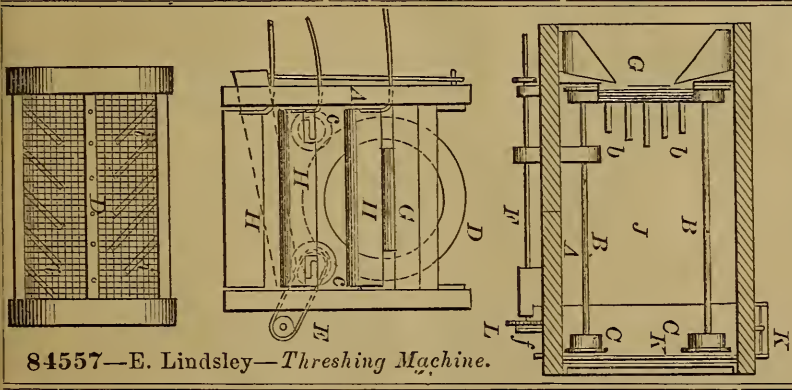
84555—J. Koberle—*Button.*



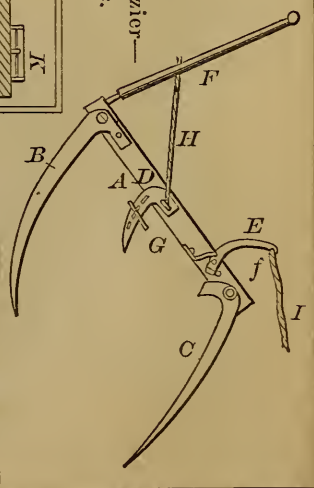
84562—W. Malick—*For Pointing Hooks and Staples.*



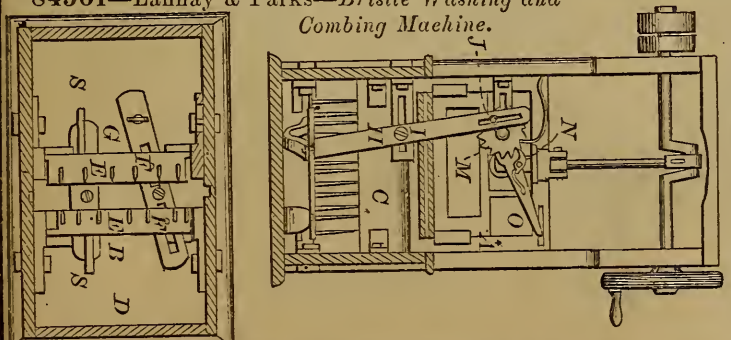
84557—E. Lindsley—*Threshing Machine.*



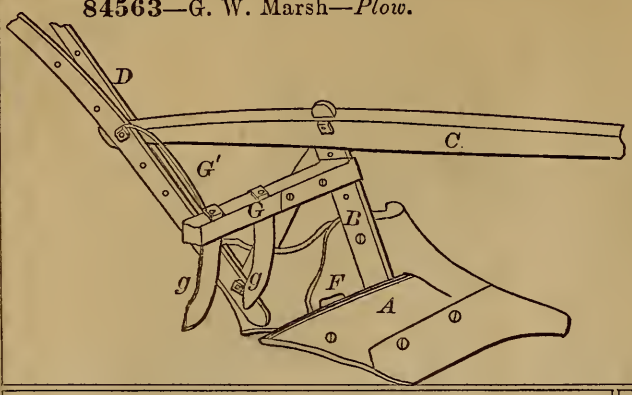
84559—A. W. Lozier—*Horse Hay Fork.*



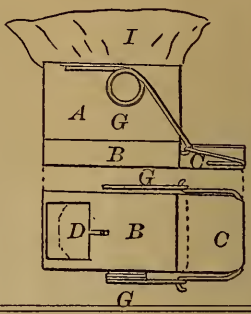
84561—Lannay & Parks—*Bristle Washing and Combing Machine.*



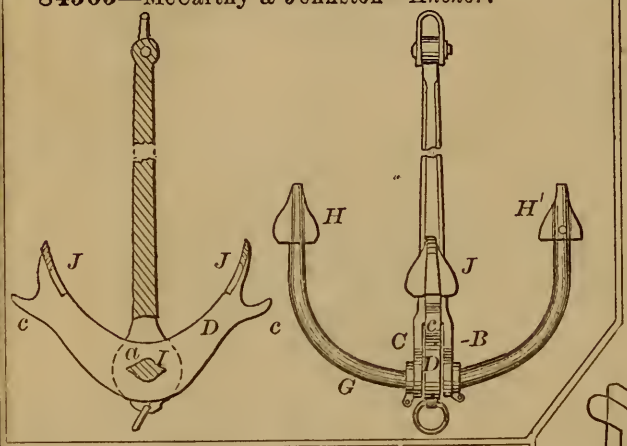
84563—G. W. Marsh—*Plow.*



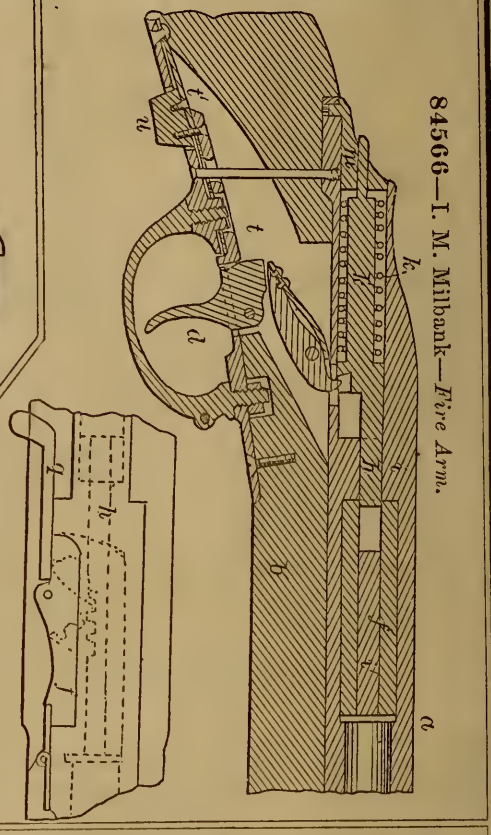
84571—J. Nevison—*Corn Dropper.*



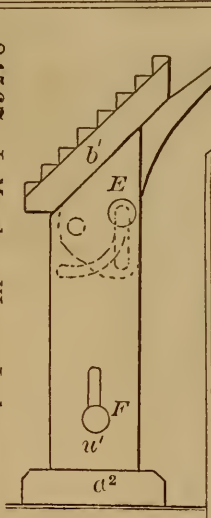
84565—McCarthy & Johnston—*Anchor.*



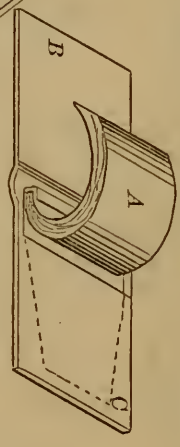
84566—I. M. Milbank—*Fire Arm.*



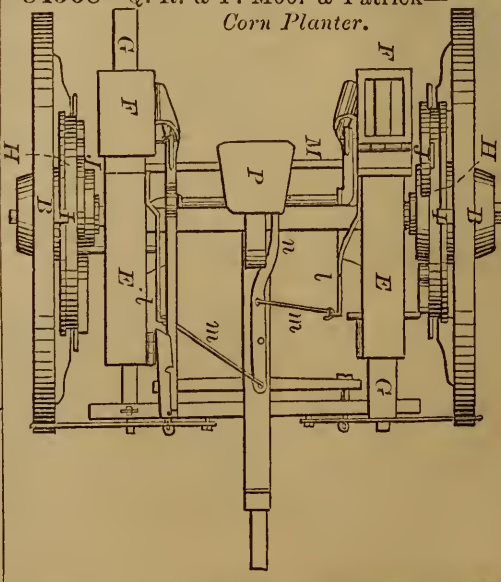
84567—J. Moody—*Wagon Jack*

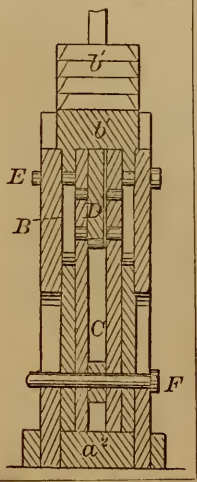


84564—L. G. Matthews—*Book Binding.*

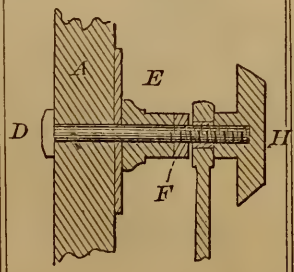


84568—Q. R. & P. Moor & Patrick—*Corn Planter.*

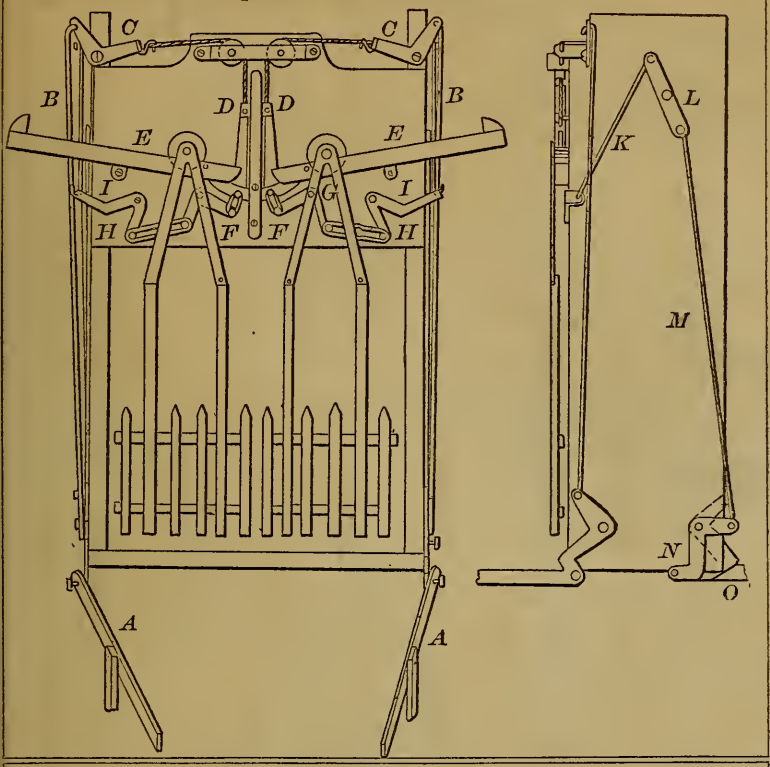




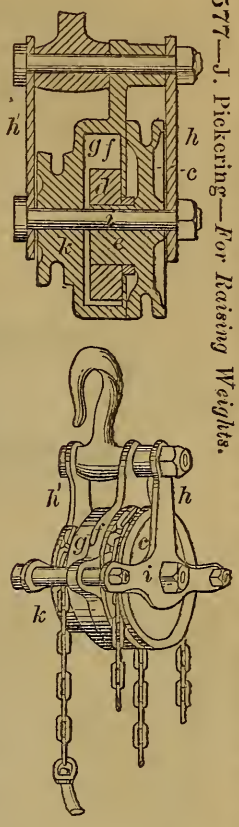
84573—W. B. Pardee—*Carriage Top Prop.*



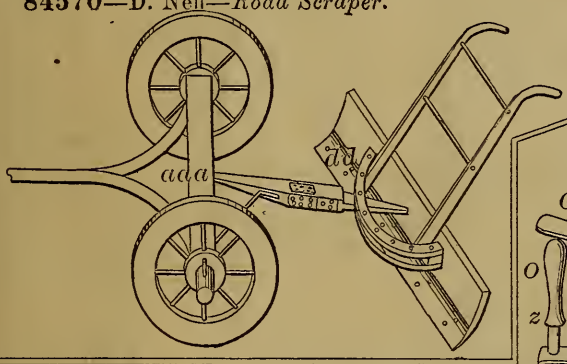
84569—T. J. Murphy—*Automatic Gate.*



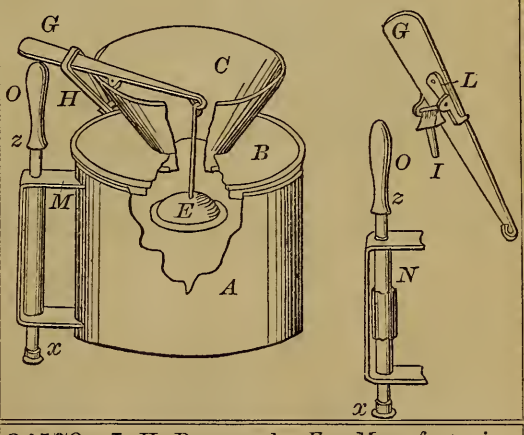
84577—J. Pickering—*For Raising Weights.*



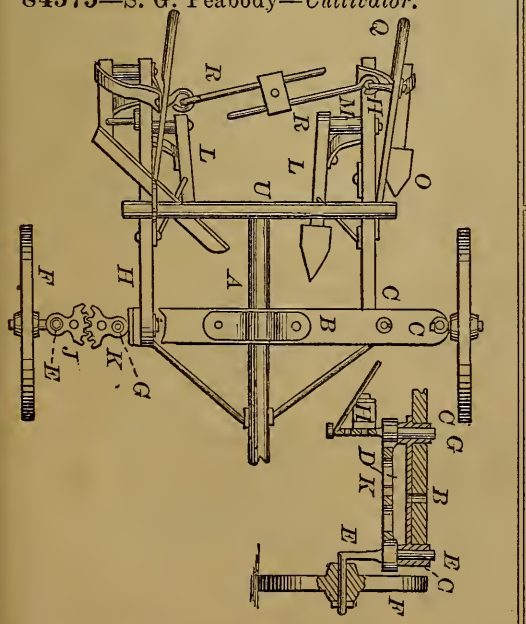
84570—D. Neff—*Road Scraper.*



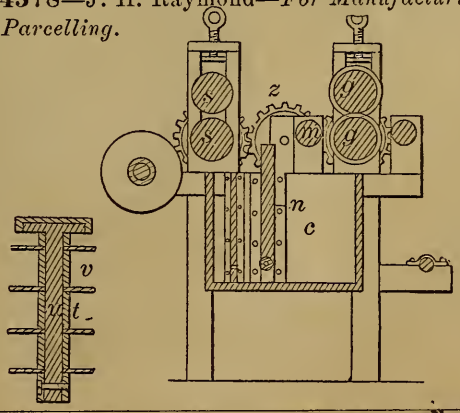
84572—S. Oppenheimer—*Milk Pail.*



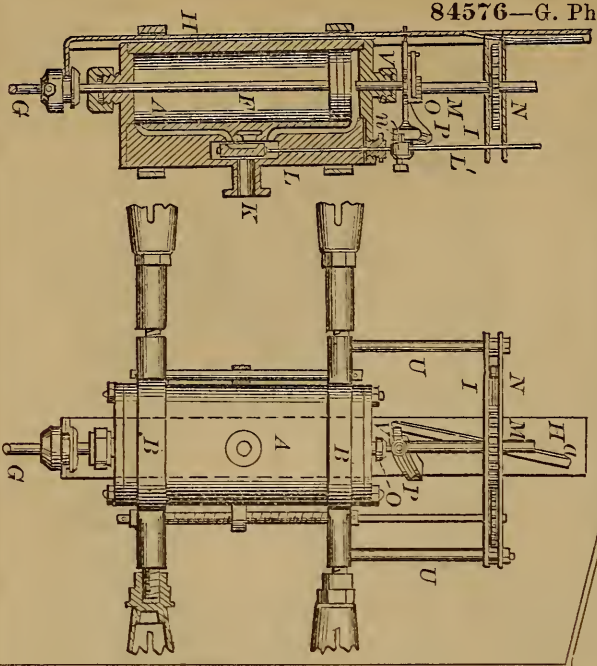
84575—S. G. Peabody—*Cultivator.*



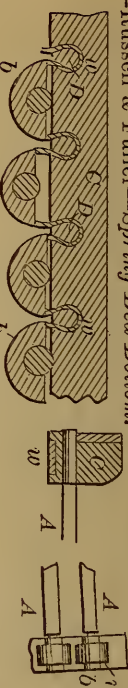
84578—J. H. Raymond—*For Manufacturing Parcelling.*



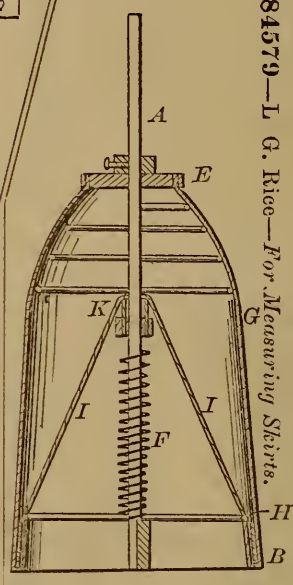
84576—G. Phillips—*Rock Drill.*



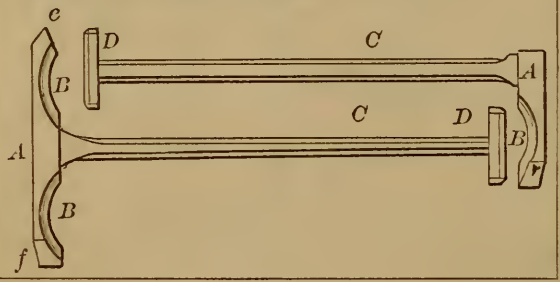
84581—Russell & Fuller—*Spring Bed Bottom.*



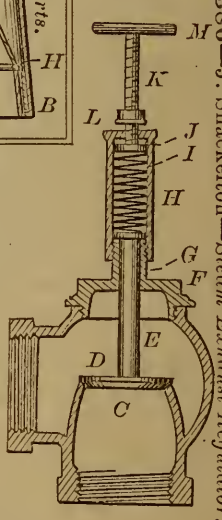
84579—L. G. Rice—*For Measuring Skirts.*



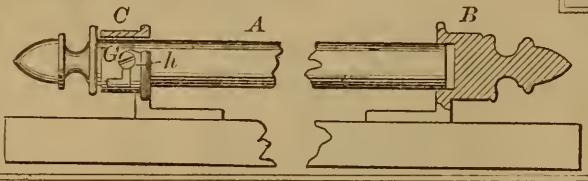
84587—G. V. Sloat—*Boiler Flue Cleaner.*



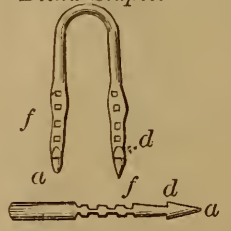
84586—J. Shackelton—*Steam Exhaust Regulator.*



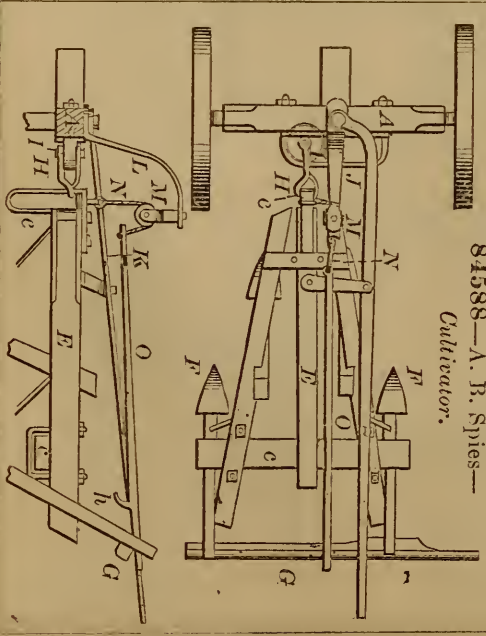
84584—T. Sargeant—*Stair Rod.*



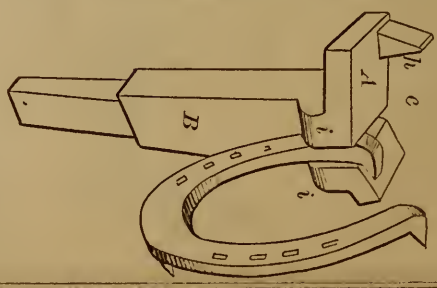
84585—J. B. Sargent—*Blind Staple.*



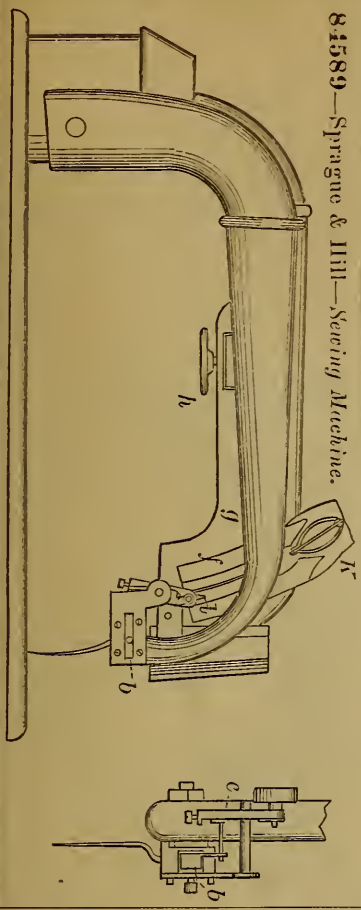
84588—A. R. Spies—*Cultivator.*



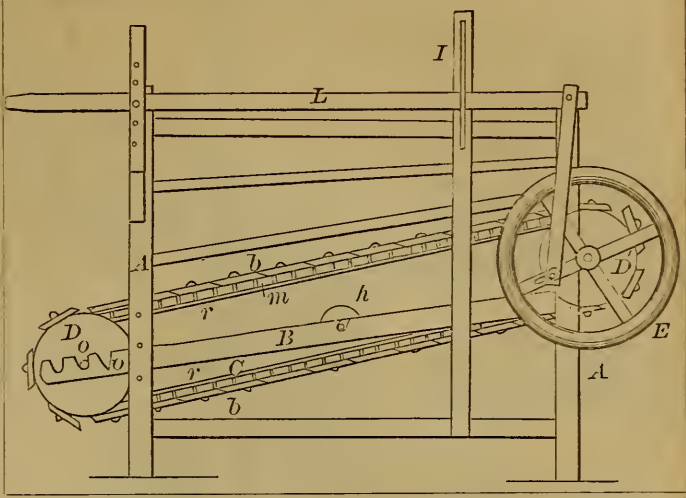
84583—Saylor & Rhodes—*Anvil.*



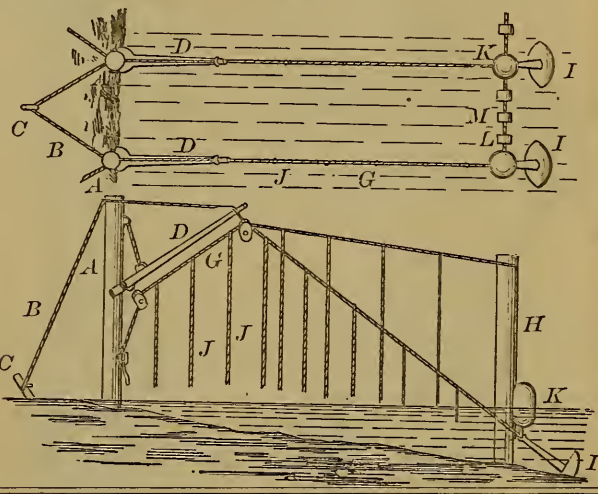
84589—Sprague & Hill—*Sewing Machine.*



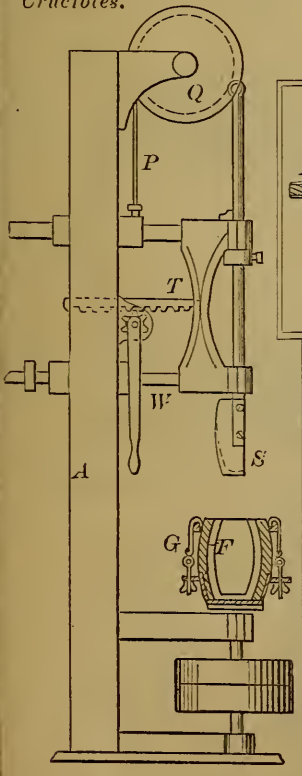
84590—T Starr—*Animal Power.*



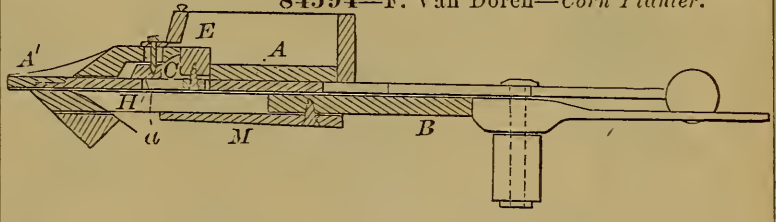
84592—W. T. Street—*Life Lines for Sea Bathing.*



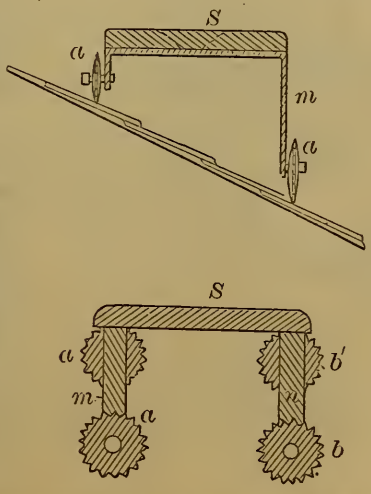
84593—Taylor & Strow—*For Moulding Pots and Crucibles.*



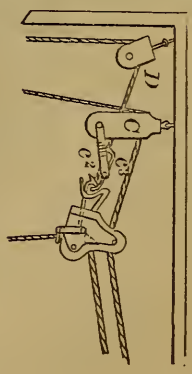
84594—F. Van Doren—*Corn Planter.*



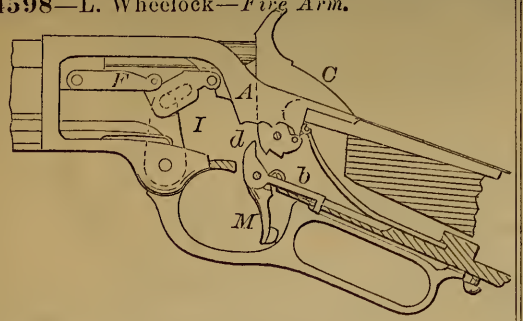
84595—F. Van Doren—*Shingle Stool.*



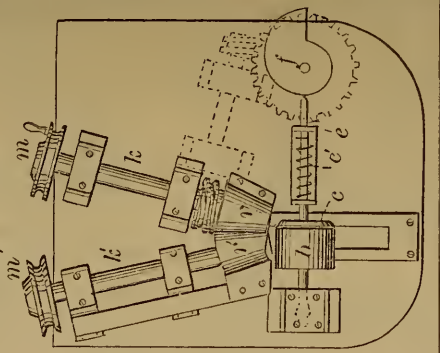
84591—H. C. Stouffer—*Hay Carrier.*



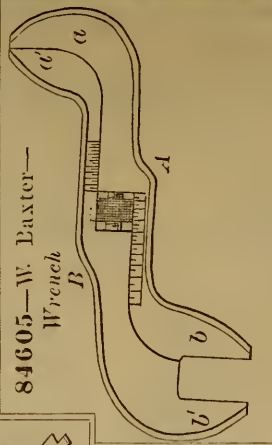
84598—L. Wheelock—*Fire Arm.*

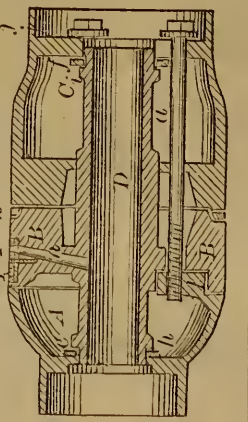


84599—M. D. Whipple—*Felting Hats.*

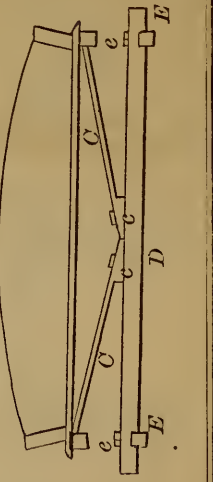


84605—W. Baxter—*Wrench*



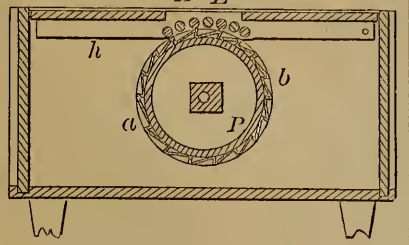


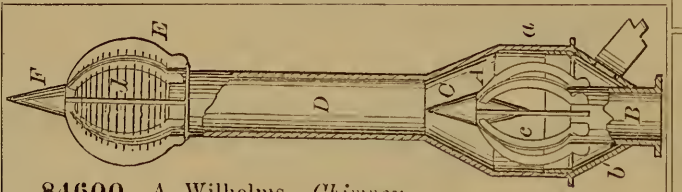
84601—A. S. Woolward—*Wagon Hub.*



84603—C. W. Aikin—*Wagon Seat.*

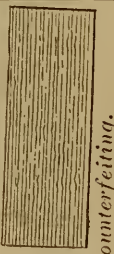
84597—L. B. Wheeler—*Washing Machine.*



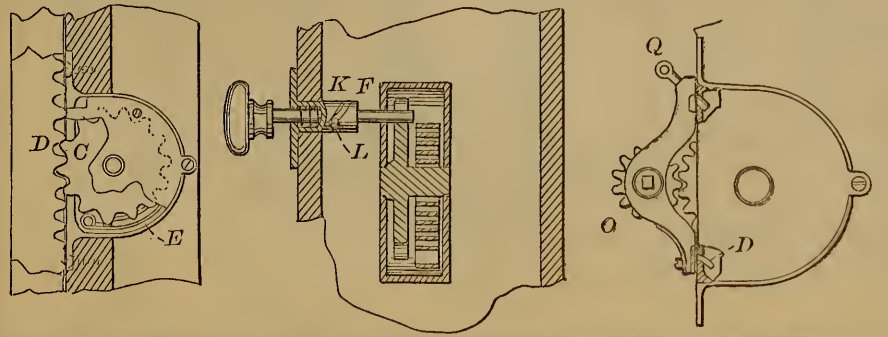


84600—A. Wilhelms—*Chimney.*

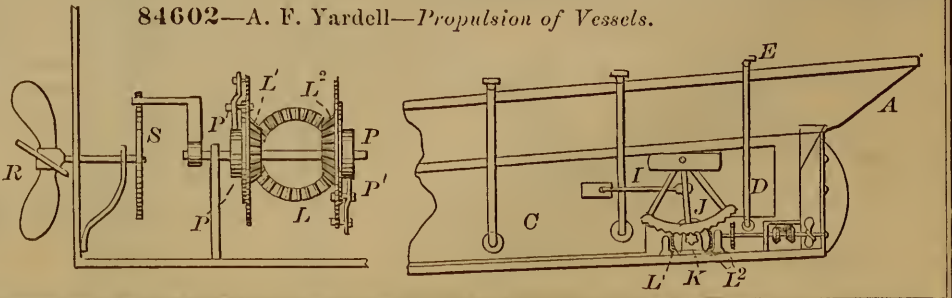
84606—S. Beer—*Preventing Bank Note Counterfeiting.*



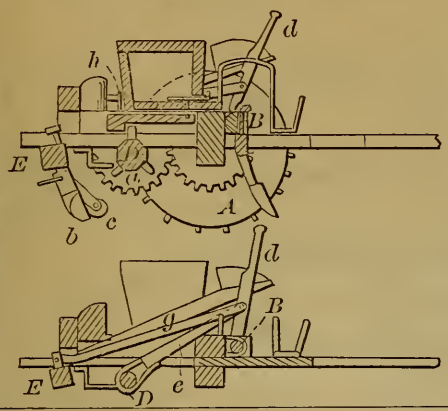
84596—W. M. & C. A. Warren—*Sash Fastener.*



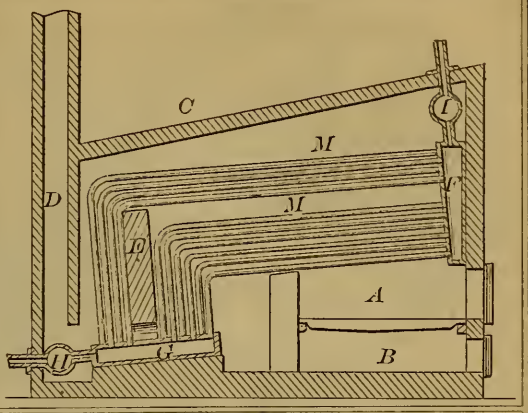
84602—A. F. Yardell—*Propulsion of Vessels.*



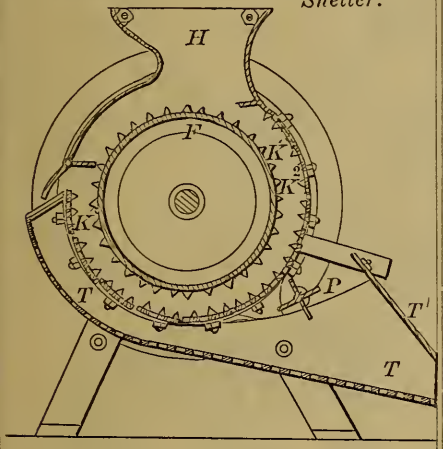
84604—J. M. Allison—*Corn Planter.*

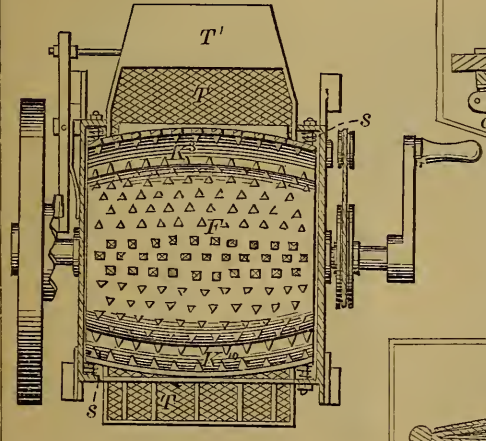


84607—G. W. Blake—*Steam Generator.*

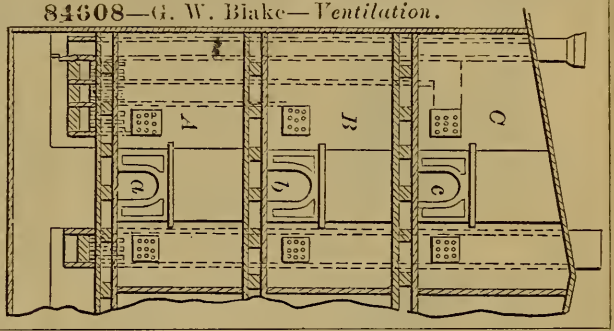


84610—J. A. Cauldwell—*Corn Sheller.*

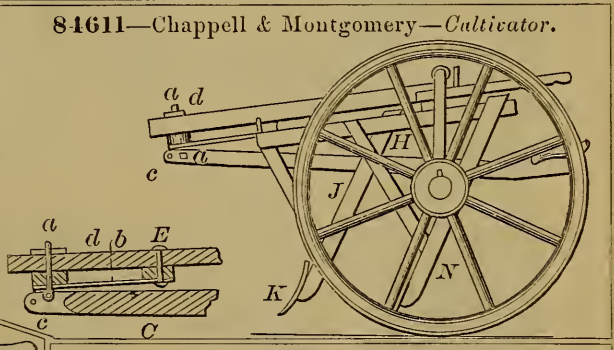




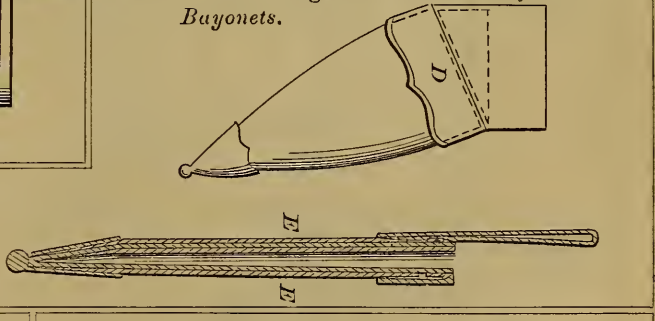
84608—G. W. Blake—*Ventilation.*



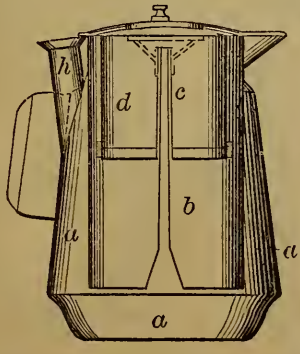
84611—Chappell & Montgomery—*Cultivator.*



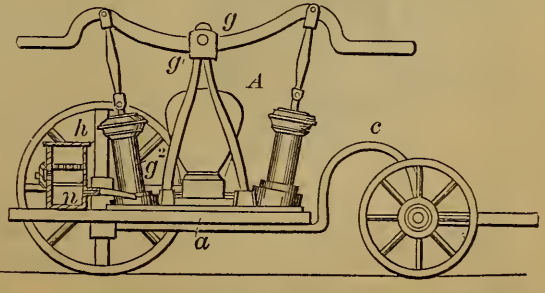
84612—F. Chillingworth—*Scabbard for Trowel Bayonets.*



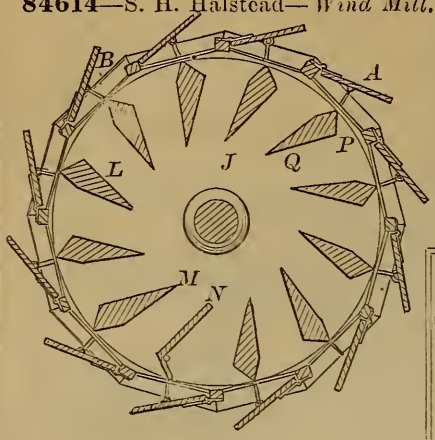
84609—L. Brauer—*For Making Extracts and Decoctions.*



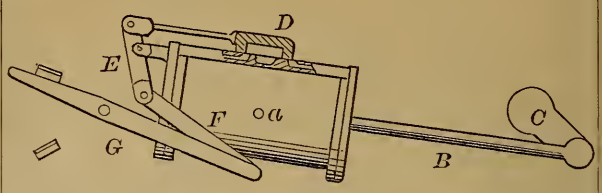
84613—I. H. Clark—*Application of Carbonic Acid in Fire Engines.*

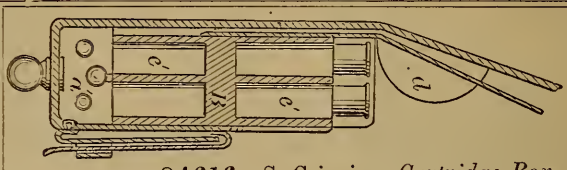


84614—S. H. Halstead—*Wind Mill.*

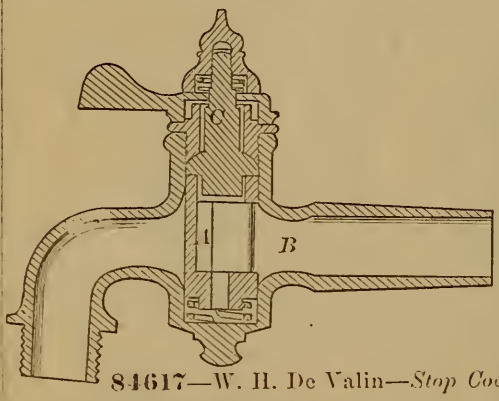


84615—J. Crampton—*Valve Gear.*



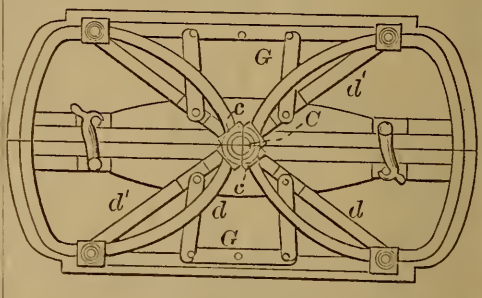


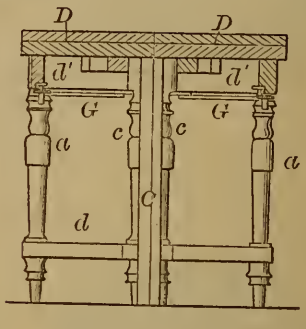
84616—S. Crispin—*Cartridge Box.*



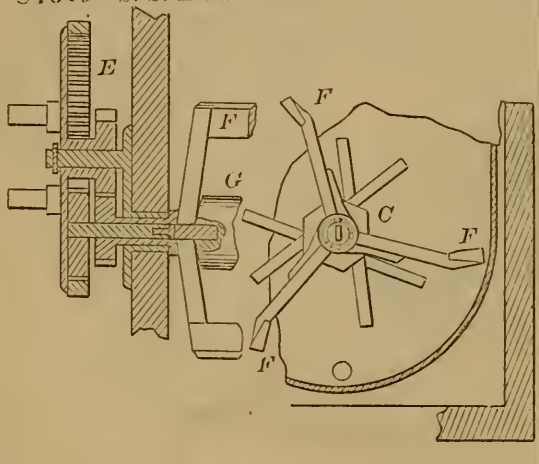
84617—W. H. De Valin—*Stop Cock.*

84618—Drouhard & Roye—*Table.*

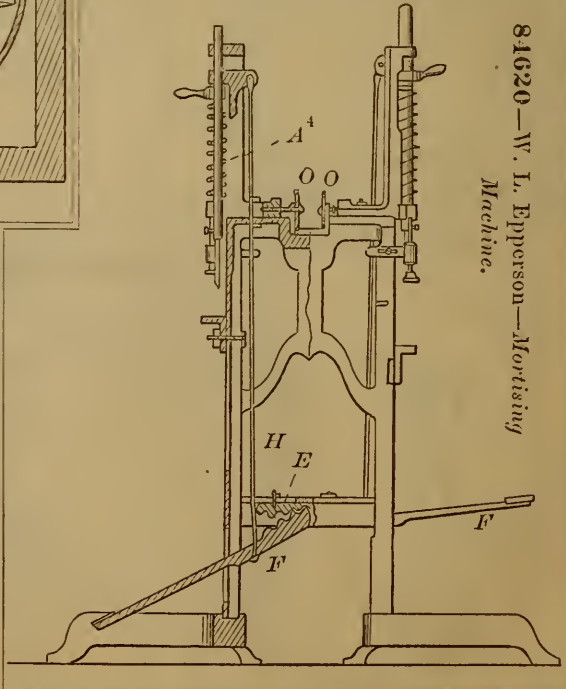




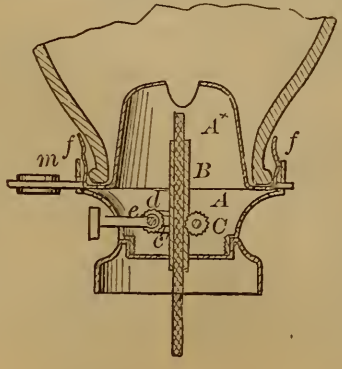
84619—S. S. Elder—*Churn.*



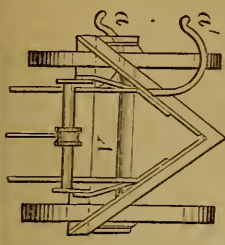
84620—W. L. Epperson—*Mortising Machine.*



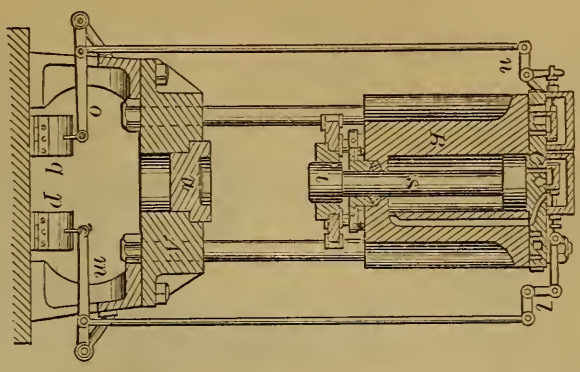
84623—J. Gibbs—*Lamp.*

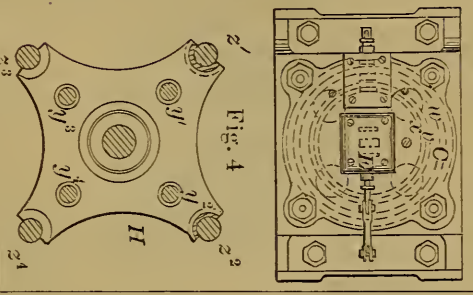


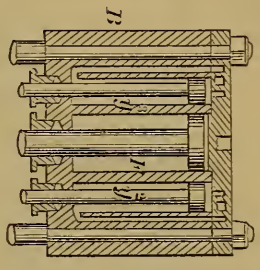
84621—M. Eyth—*Rope Bearing Attachment for Steam Culture.*



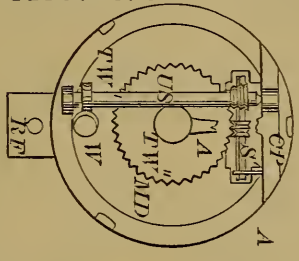
84625—W. D. Grimshaw—*Stamp and Die.*

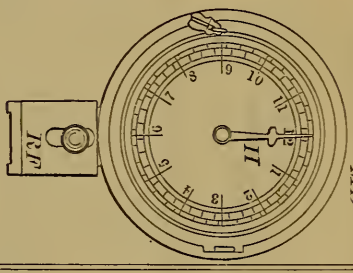




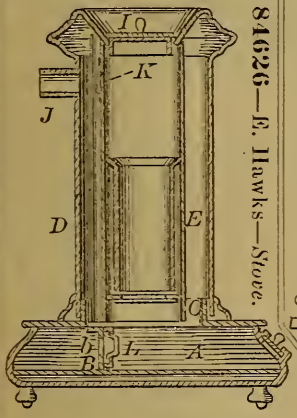


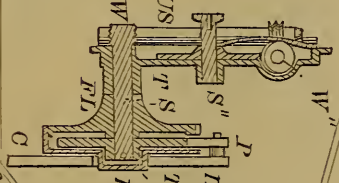
84622—J. Garsed—*Steam Engine Register.*



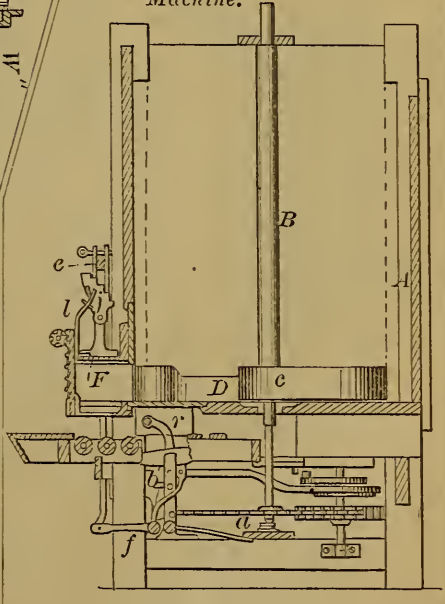


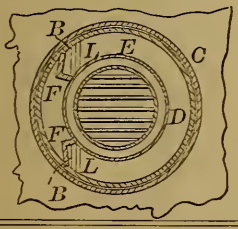
84626—E. Hawks—*Stove.*



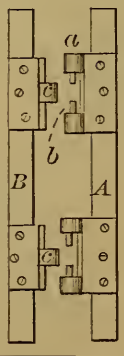


84624—H. H. Gray—*Brick Machine.*

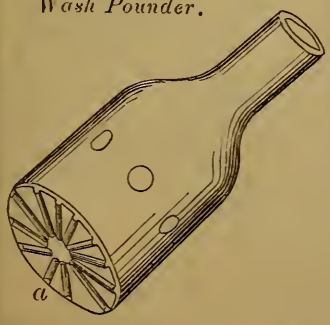




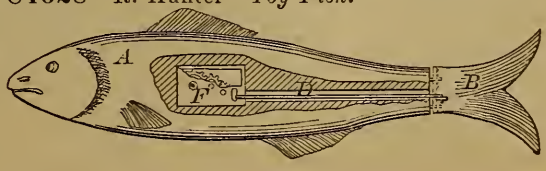
84630—G. A. Jenks—*Hinge.*



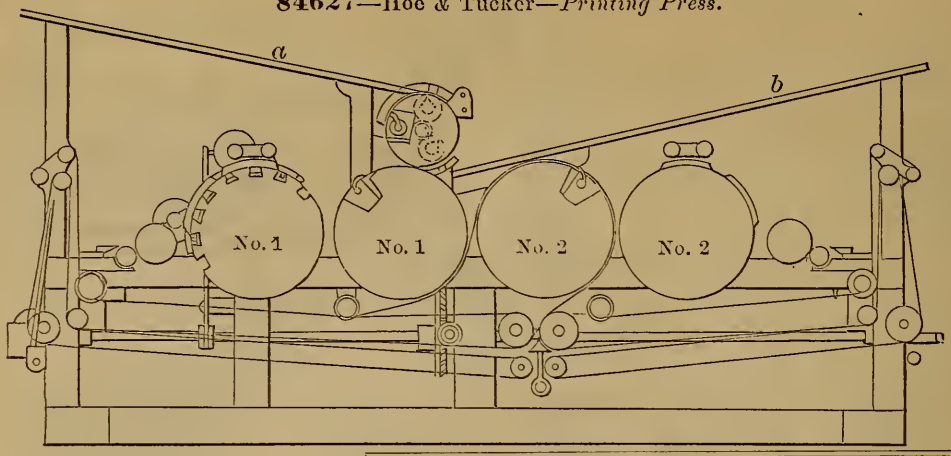
84633—P. A. La France—*Wash Pounder.*

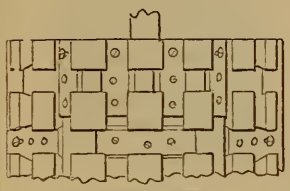


84628—R. Hunter—*Toy Fish.*

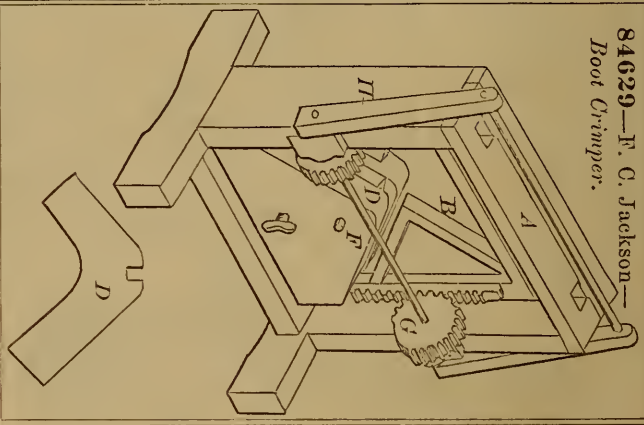


84627—Hoe & Tucker—*Printing Press.*

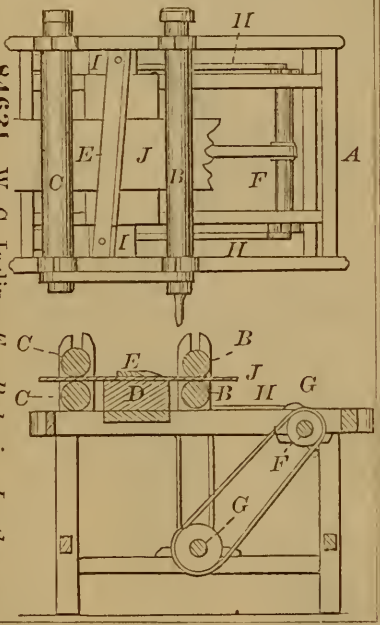




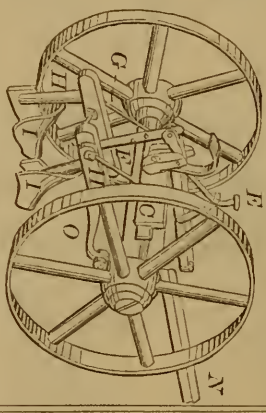
84629—F. C. Jackson—*Boot Crimper.*



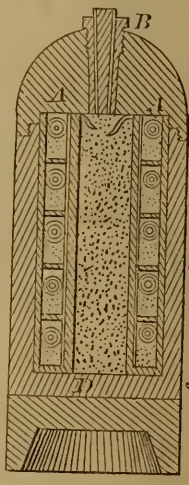
84631—W. C. Joslin—*For Reducing Leather.*



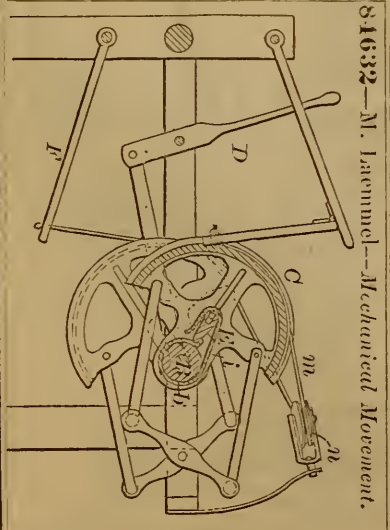
84634—J. B. Logan—*Gang Plow.*



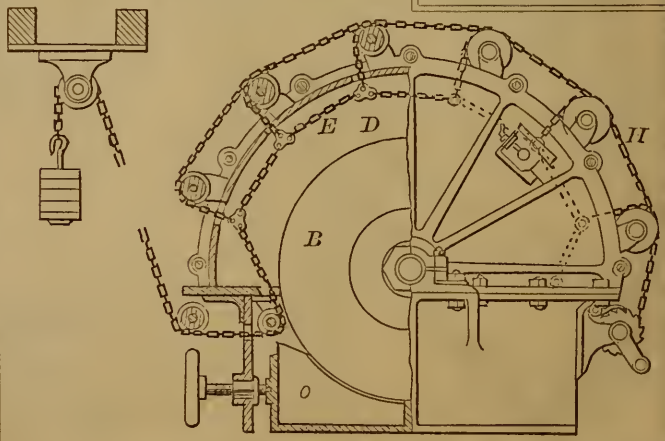
84635—J. Long—*Explosive Projectile.*



84632—M. Lacrmmel—*Mechanical Movement.*

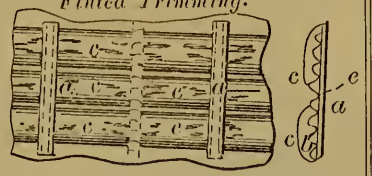


84640—H. Marx—*For Reducing Wood to Paper Pulp.*

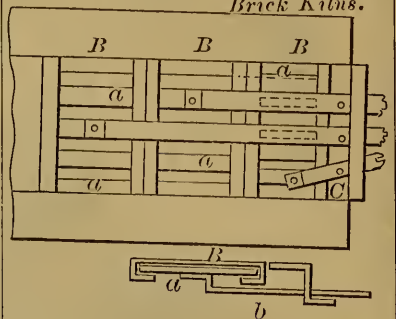


84643—P. J. McGuiness—*Martingale.*

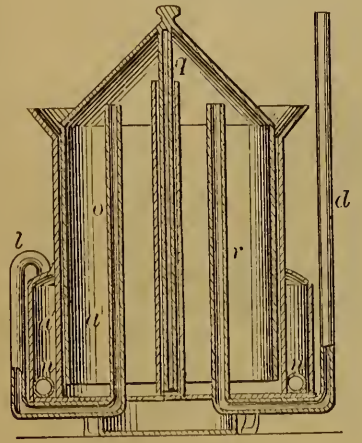
84641—L. H. Mandelbaum—*Fluted Trimming.*

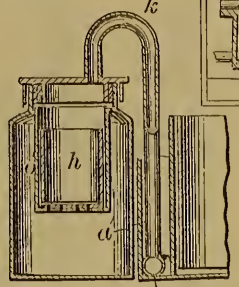


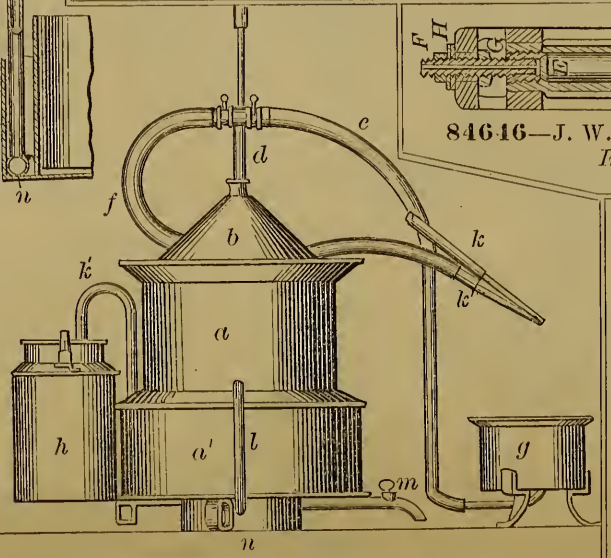
84639—J. Maltpress—*Grate for Brick Kilns.*



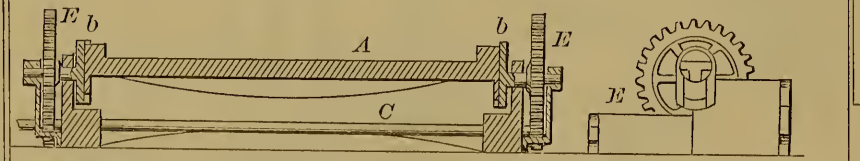
84636—C. B. Loveless—*Manufacture of Illuminating Gas.*

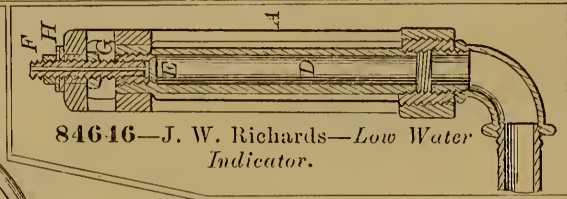






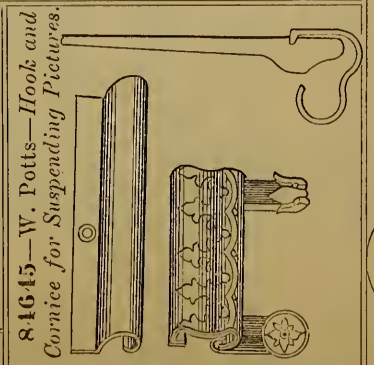
84637—J. N. Lyman—*Revolving Stay Log for Cutting Veneers.*



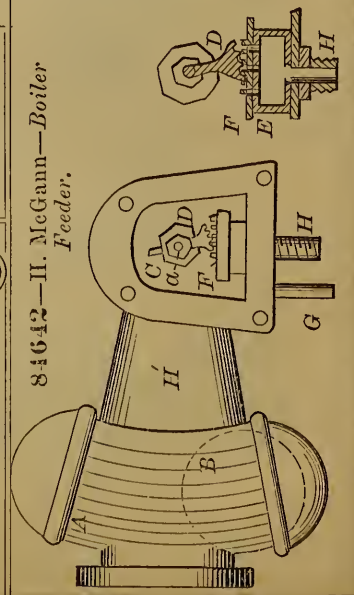


84646—J. W. Richards—*Low Water Indicator.*

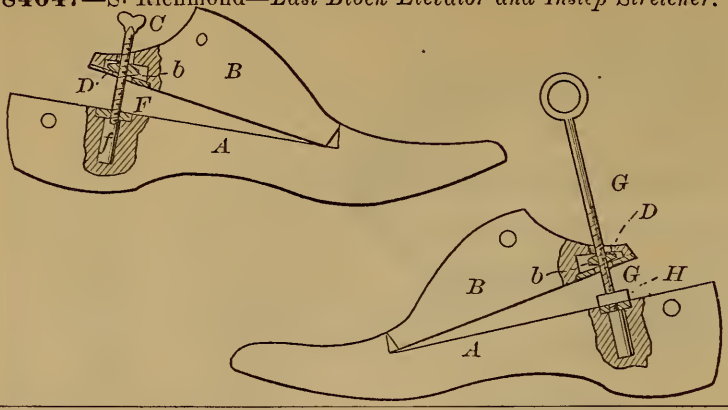
84645—W. Potts—*Hook and Cornice for Suspending Pictures.*



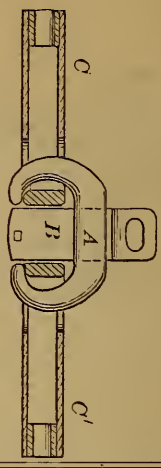
84642—H. McGann—*Boiler Feeder.*



84647—S. Richmond—*Last Block Elevator and Instep Stretcher.*



84648—E. Russell—*Car Coupling.*



84649—R. Sandiford—*Cultivator.*

Fig. 1

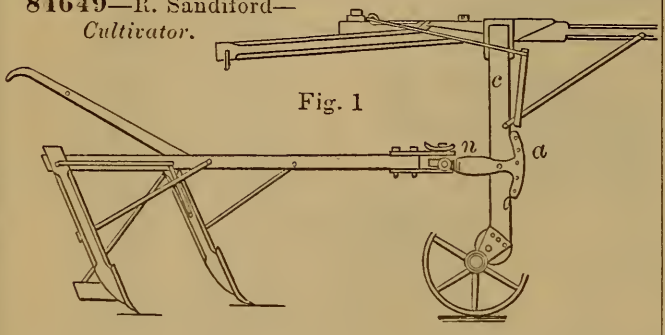


Fig. 2

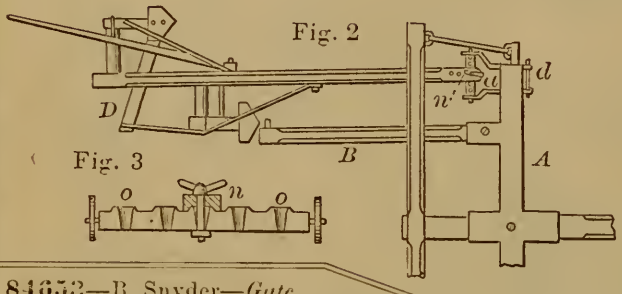
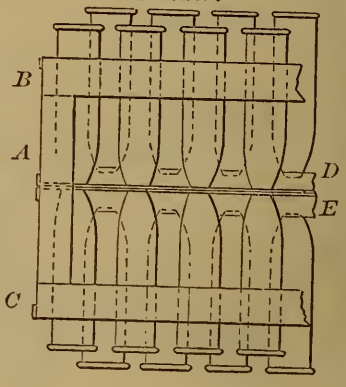
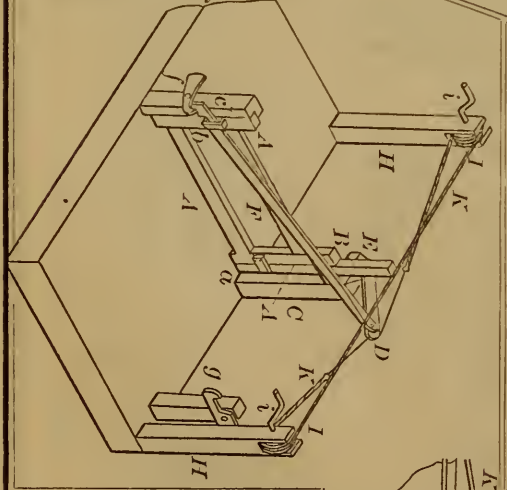


Fig. 3

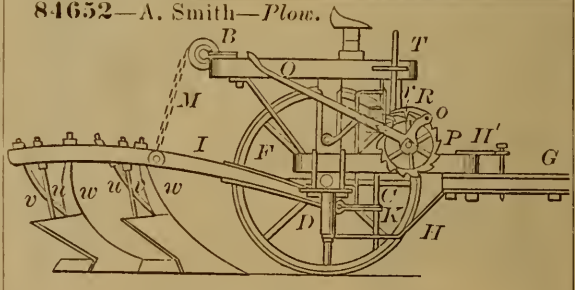
84651—J. S. Smith—*Cartridge Holder.*

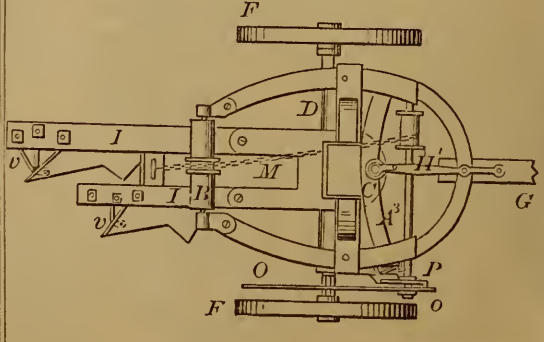


84652—B. Snyder—*Gate.*

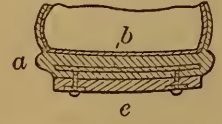


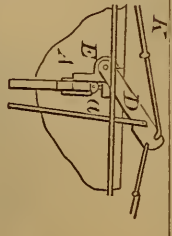
84652—A. Smith—*Plow.*



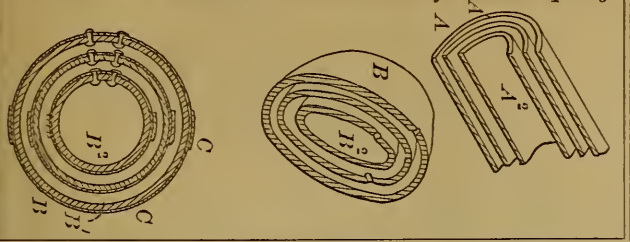


84650—F. M. Shepard—*Waterproof Shoe.*

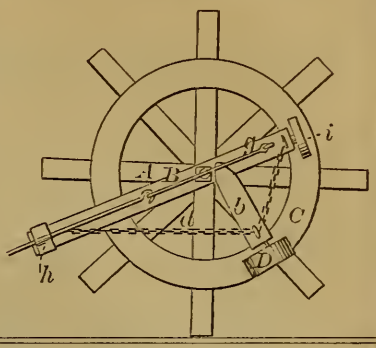




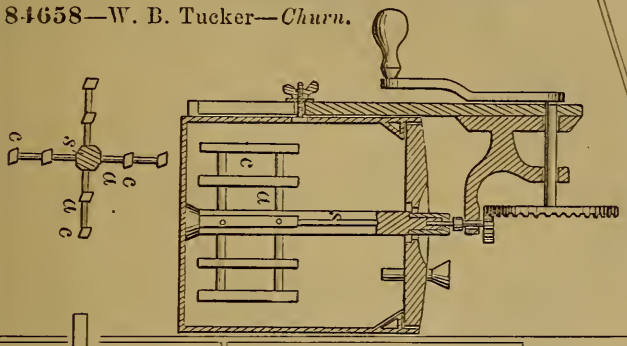
84654—D. E. Somes—*Construction of Elastic Springs.*



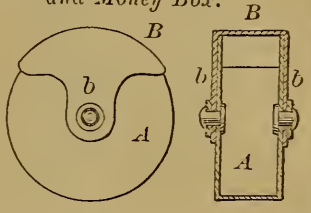
84656—Toby & Barcalo—*Harrow.*



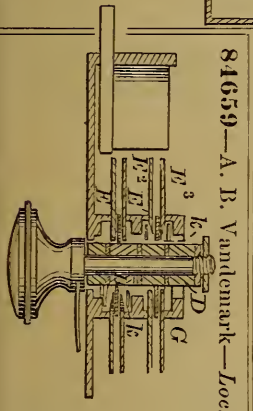
84658—W. B. Tucker—*Churn.*



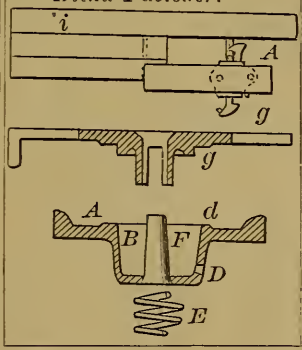
84655—N. Thompson—*Cigar and Money Box.*



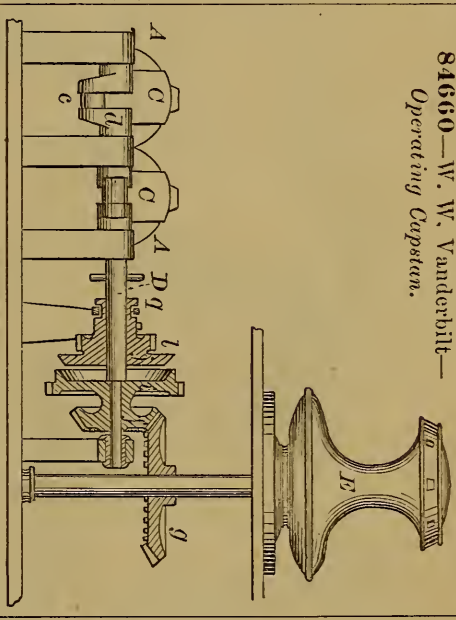
84659—A. B. Vandemark—*Locks.*



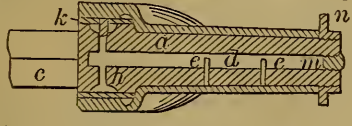
84661—F. Veazie—*Blind Fastener.*



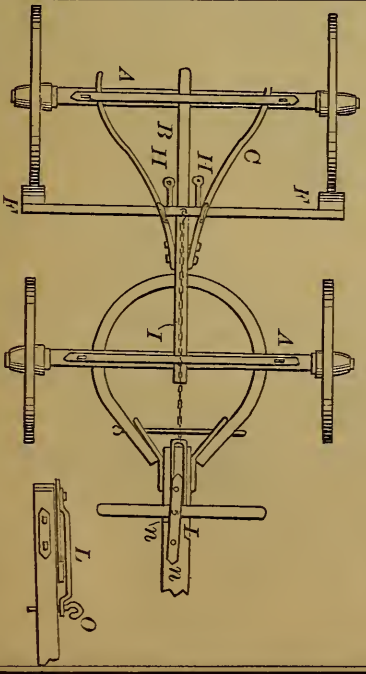
84660—W. W. Vanderbilt—*Operating Capstan.*

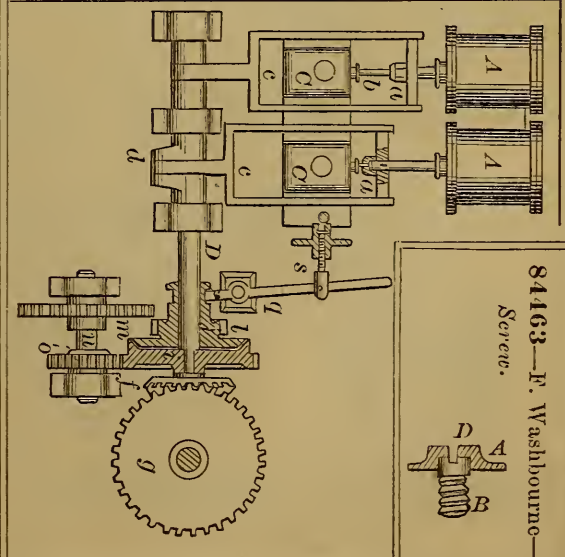


84667—J. L. Winslow—*Lubricating Axles.*



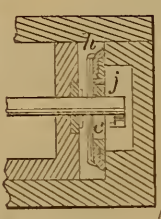
84662—W. T. Ward—*Wagon Brake.*



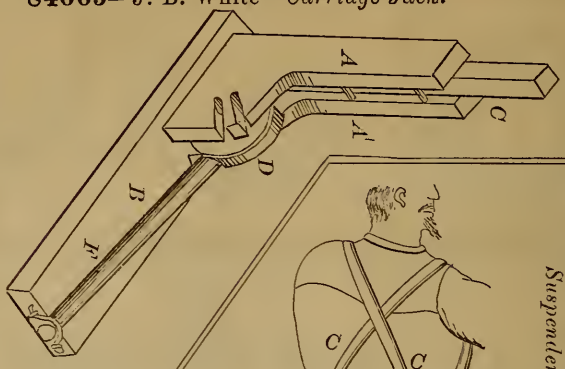


84663—F. Washbourne—*Screw.*

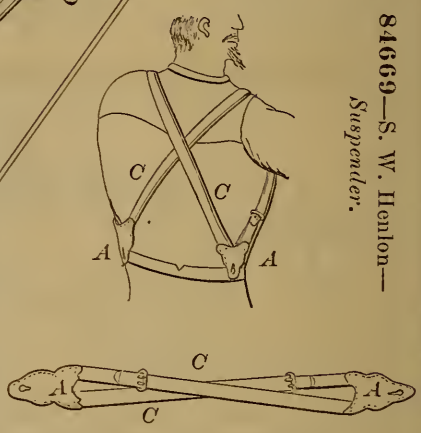
84664—J B. White—*Lock.*



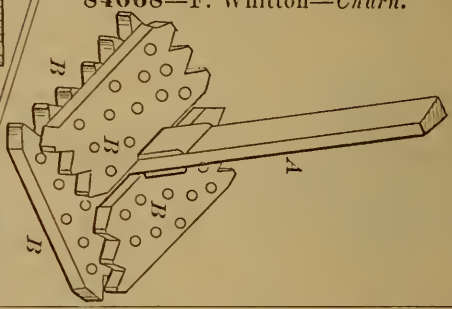
84665—J. B. White—*Carriage Jack.*



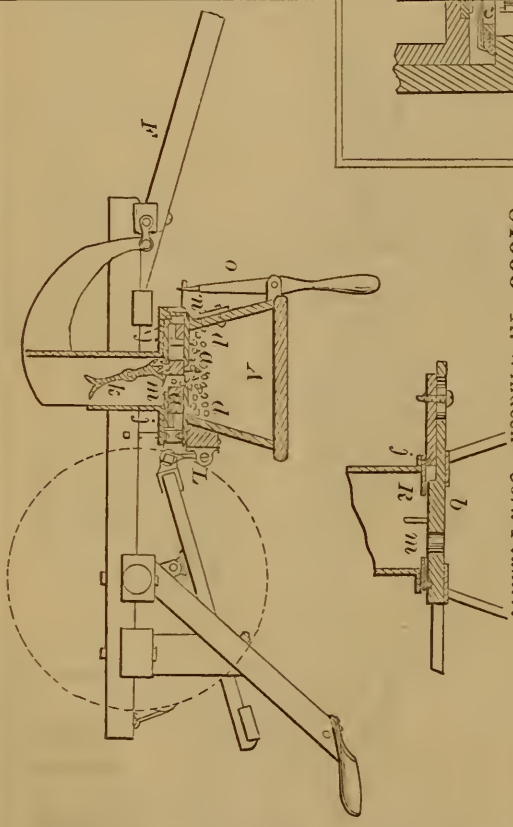
84669—S. W. Henlon—*Suspender.*



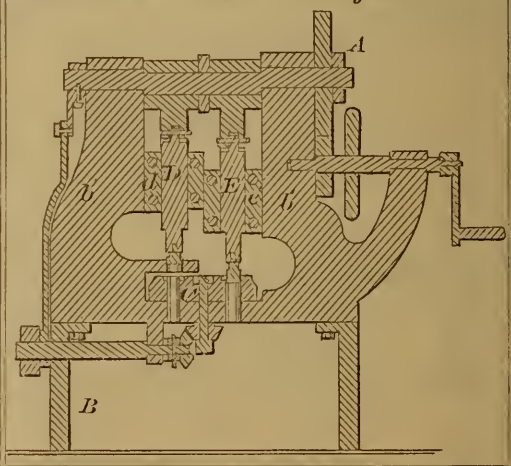
84668—F. Whitton—*Churn.*



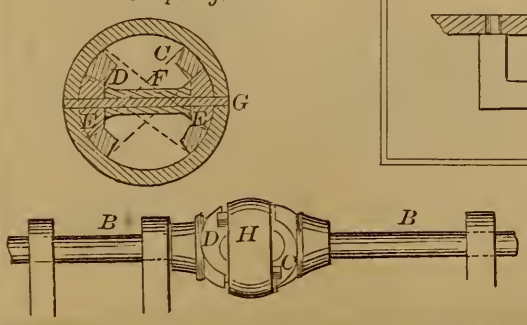
84666—A. Windeck—*Corn Planter.*



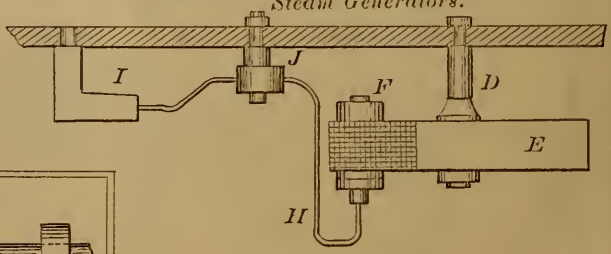
84670—J. Annear—*Punching Machine.*



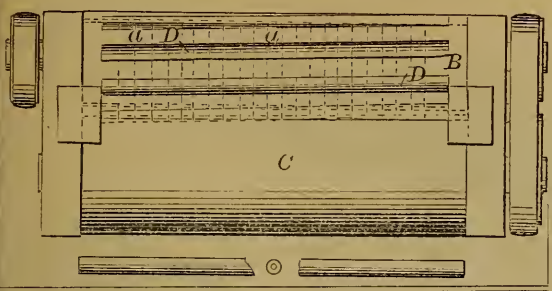
84672—C. Bennett—*Shaft Coupling.*

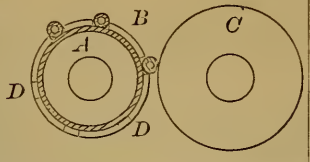


84671—Baker & Dick—*For Preventing Incrustation in Steam Generators.*

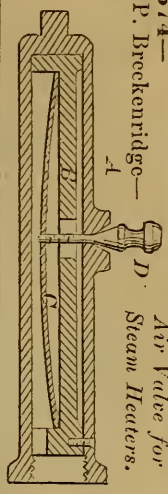


84673—G. B. Brayton—*For Cutting Eyelets.*

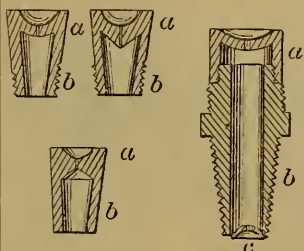




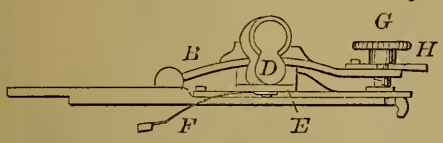
84674—M. P. Breckenridge—*Air Valve for Steam Heaters.*



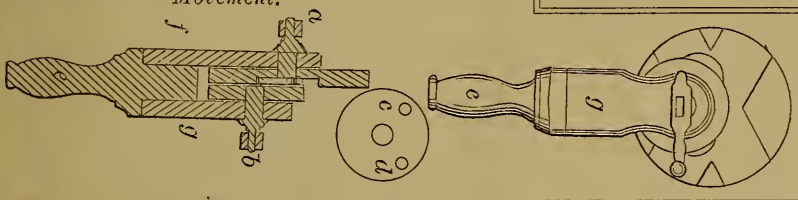
84675—J. Brönner—*Gas Burner.*



84676—Brooks & Manning—*Sewing Machine.*

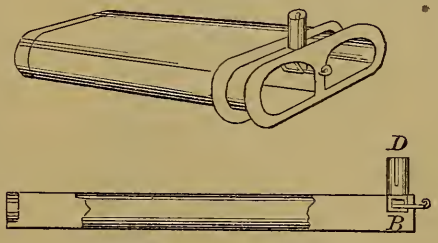


84678—A. R. Buffington—*Mechanical Movement.*

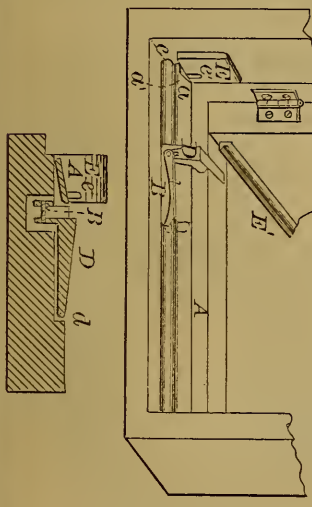


84677—H. Brown—*Last Fastener.*

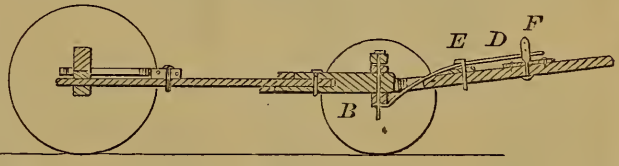
84679—M. L. Callender—*Gas Retort.*



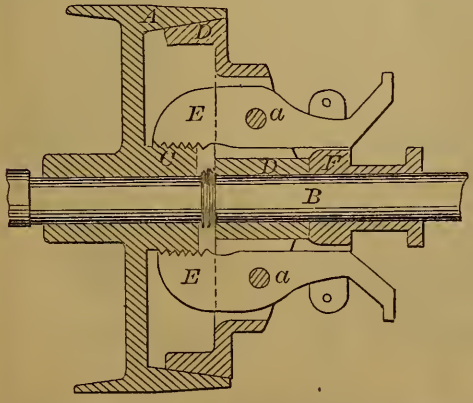
84680—E. Carpenter—*Weather Strip.*



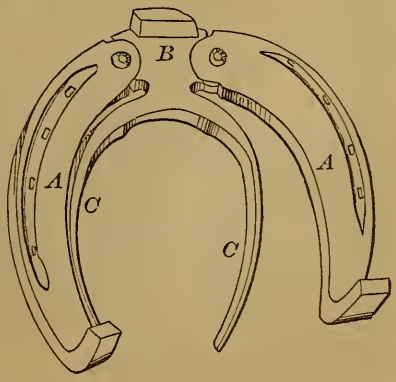
84682—N. A. De Long—*Wagon Tongue Support.*



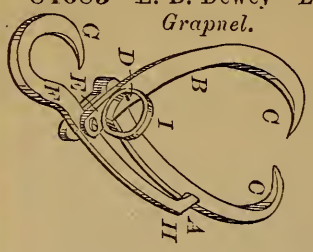
84681—A. B. Clemons—*Friction Clutch Pulley.*



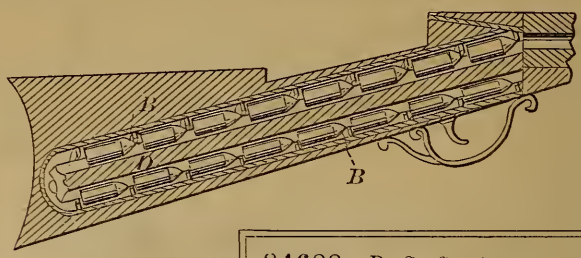
84684—F. W. Edison—*Horse Shoe.*



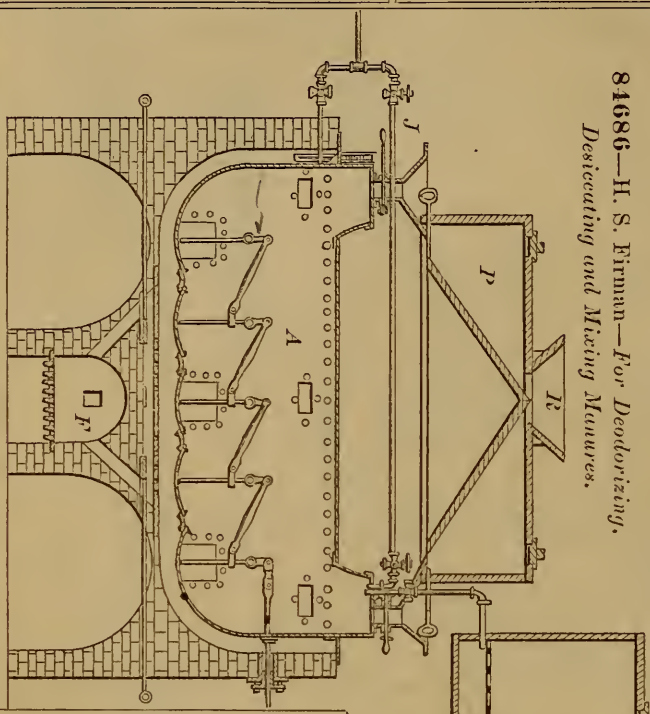
84683—E. B. Dewey—*Lever Grapnel.*



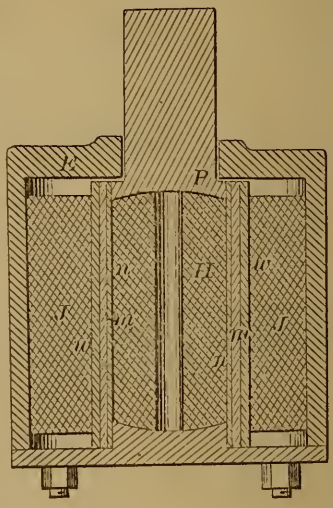
84685—W. R. Evans—*Magazine Gun.*



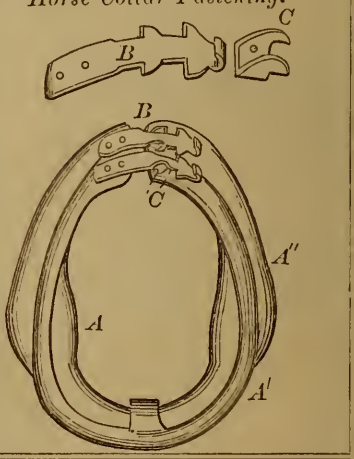
84686—H. S. Firman—*For Deodorizing, Desiccating and Mixing Manures.*



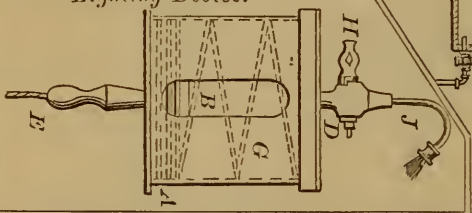
84688—P. G. Gardiner—*Car Spring.*



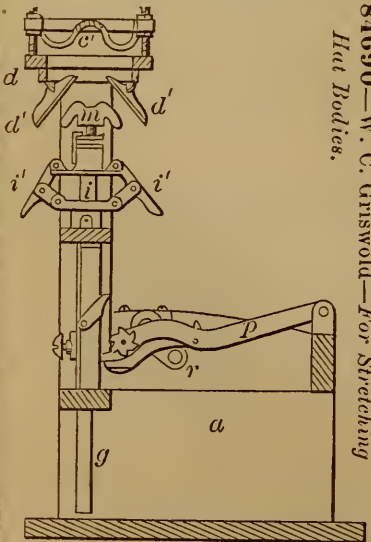
84687—J. P. & J. E. Force—*Horse Collar Fastening.*



84689—E. P. Gleason—*Gas Lighting Device.*

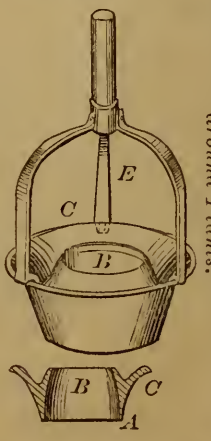


84690—W. C. Griswold—*For Stretching Hat Bodies.*

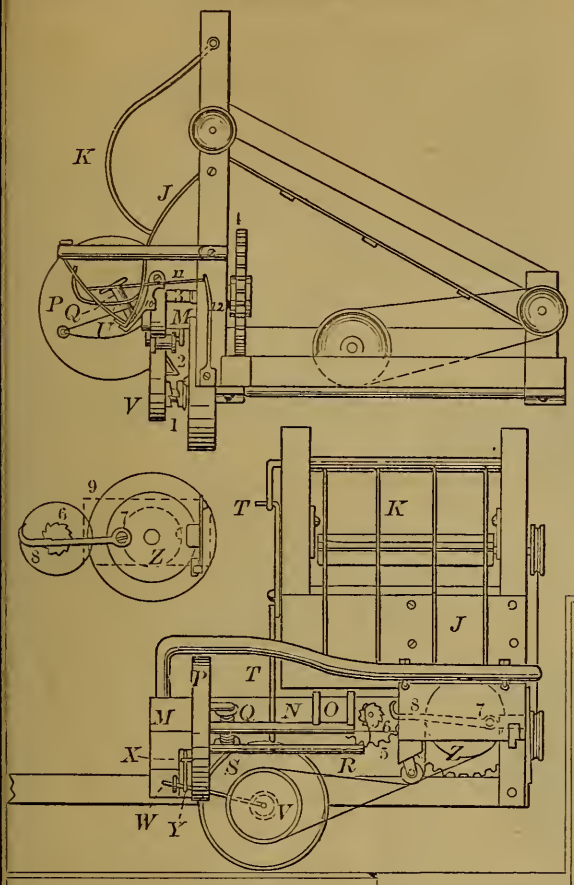


84691—Stoll & Gross—*Manure Hook.*

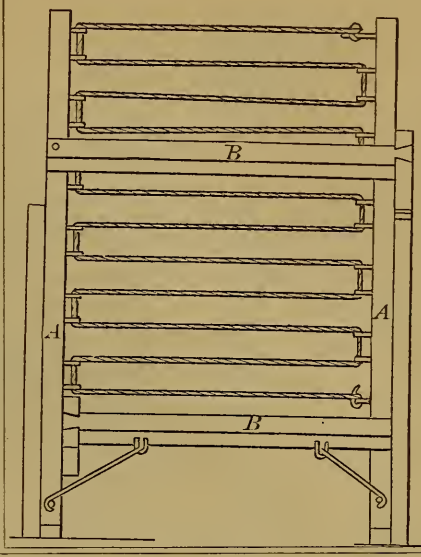
84692—W. H. Halleck—*For Trenching around Plants.*



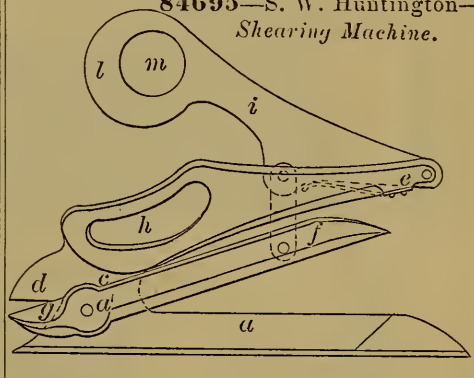
84693—Hayes, Waldo & Main—*Grain Binder.*



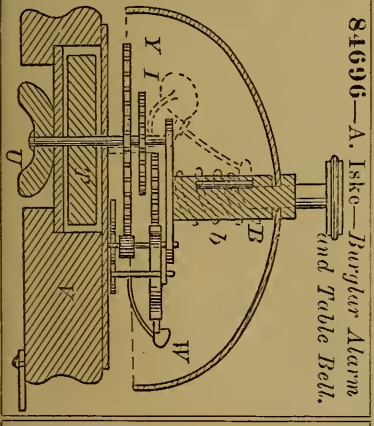
84694—I. Hogeland—*Clothes Rack.*



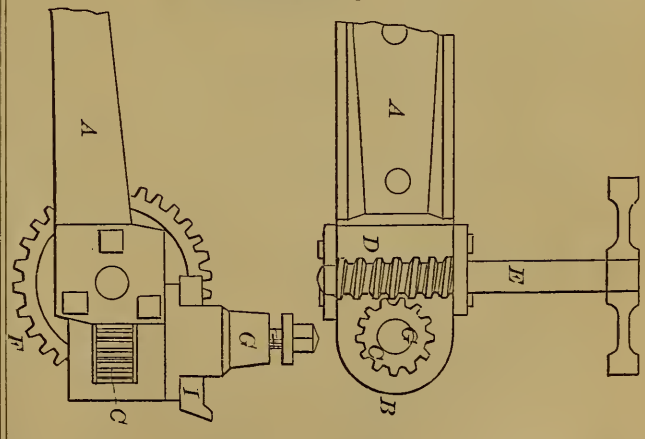
84695—S. W. Huntington—*Shearing Machine.*



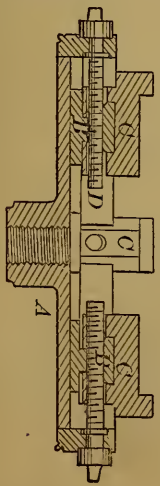
84696—A. Iske—*Burglar Alarm and Table Bell.*



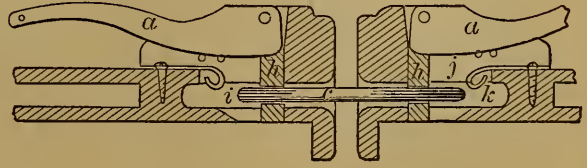
84697—J. O. Joyce—*For Cutting out Sections of Annular Cylinders.*



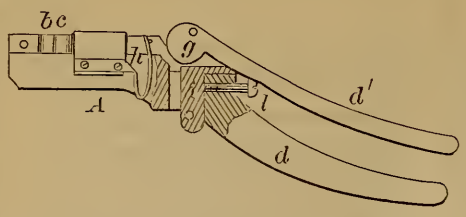
84698—A. Judson—*Lathe Chuck.*



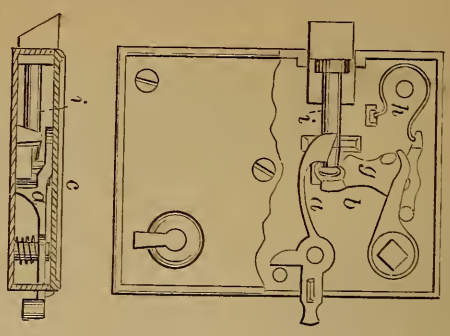
84700—C. Köhler—*Car Coupling.*

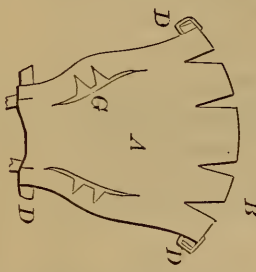


84701—G. W. Lewis—*Bolt Trimmer.*



84704—W. T. Munger—*Latch.*

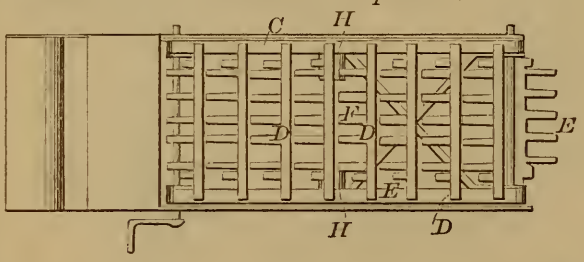


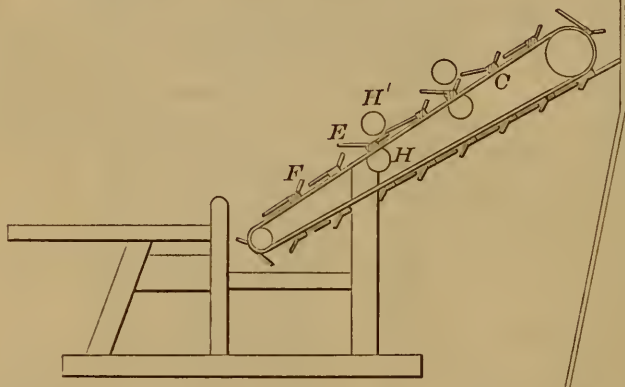


84703—M. A. Moore—*Child's Diaper.*

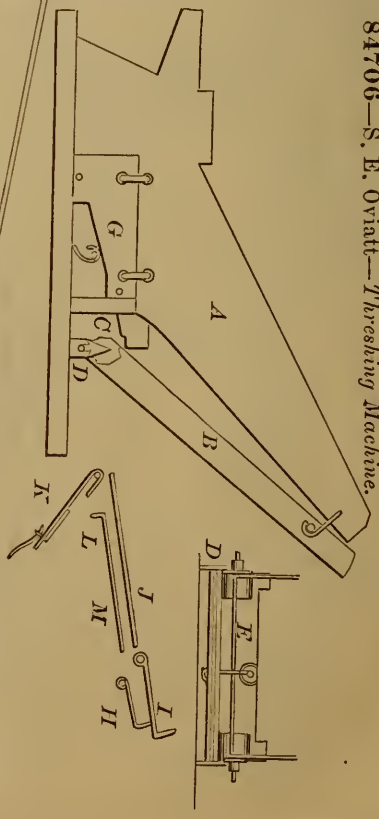
84707—Peabody & Delaney—*Advertising Device.*

84705—S. E. Oviatt—*Grain Separator.*

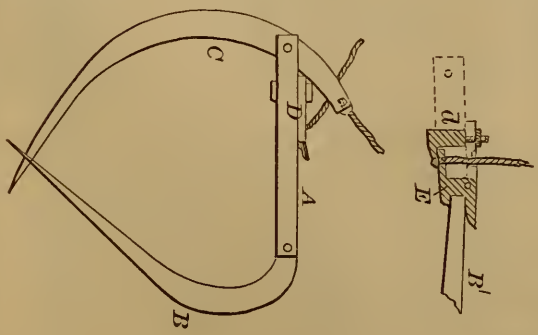




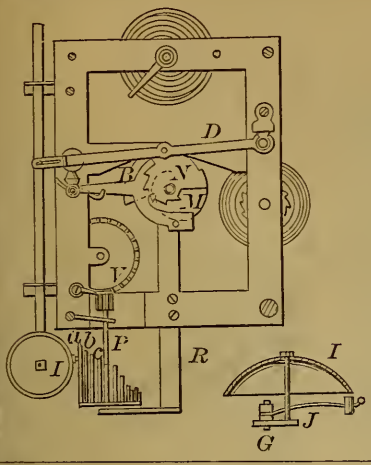
84706—S. E. Oviatt—*Threshing Machine.*



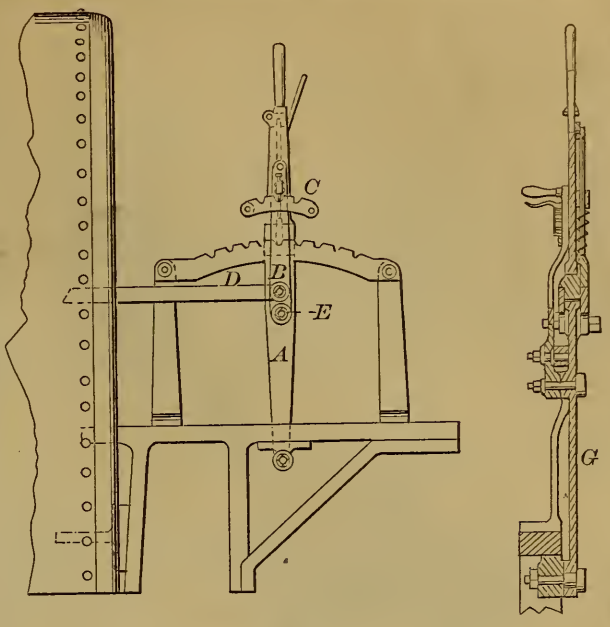
84708—C. W. Reed—*Horse Hay Fork.*



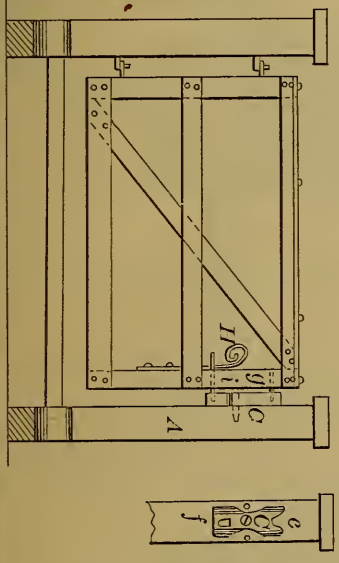
84709—C. W. Roberts—*Clock.*



84710—W. A. Robinson—*Steam Graduator.*

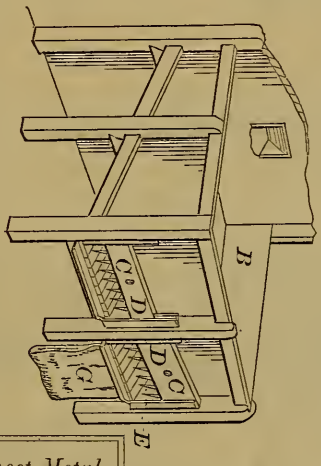


84711—J. C. Rogers—*Gate Latch.*

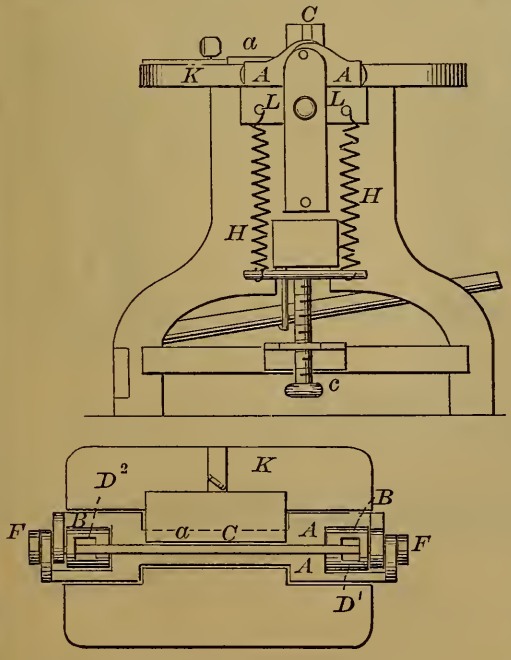


84712—Dorchester & Scott—*Hay Fork.*

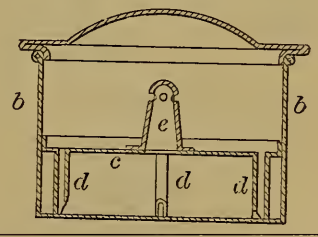
84713—E. Seely—*For Sucking Potatoes.*



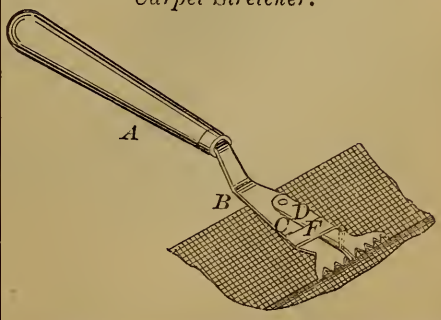
84714—A. Shepard—*For Bending Sheet Metal.*



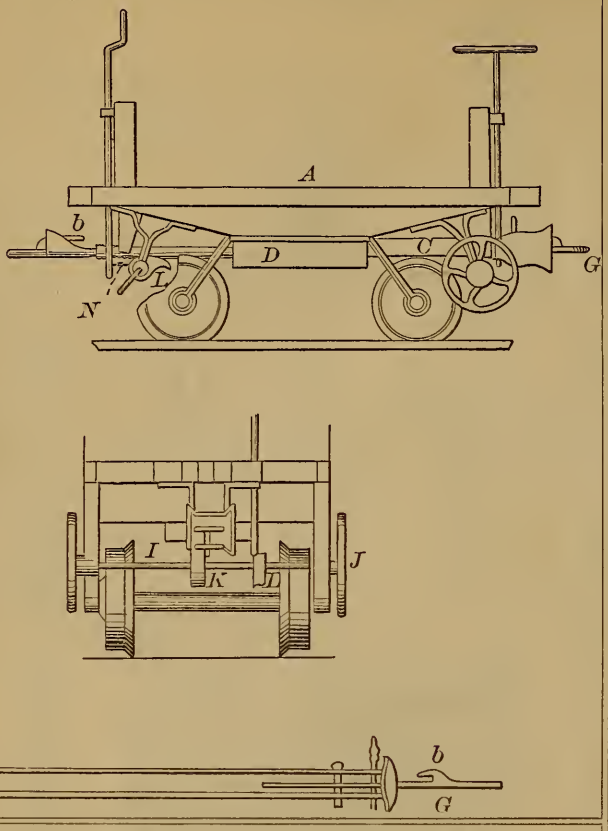
84715—M. W. Staples—*Wash Boiler.*



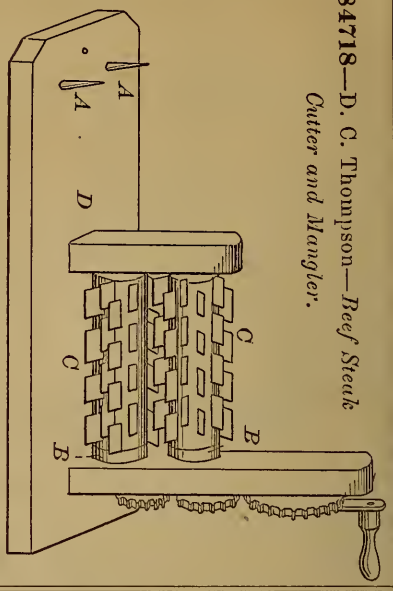
84717—J. E. Sturdy—*Tack Holder and Carpet Stretcher.*



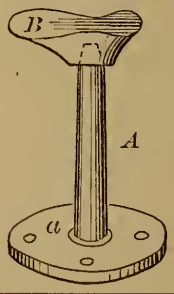
84716—O. S. St. John—*Car Coupling.*



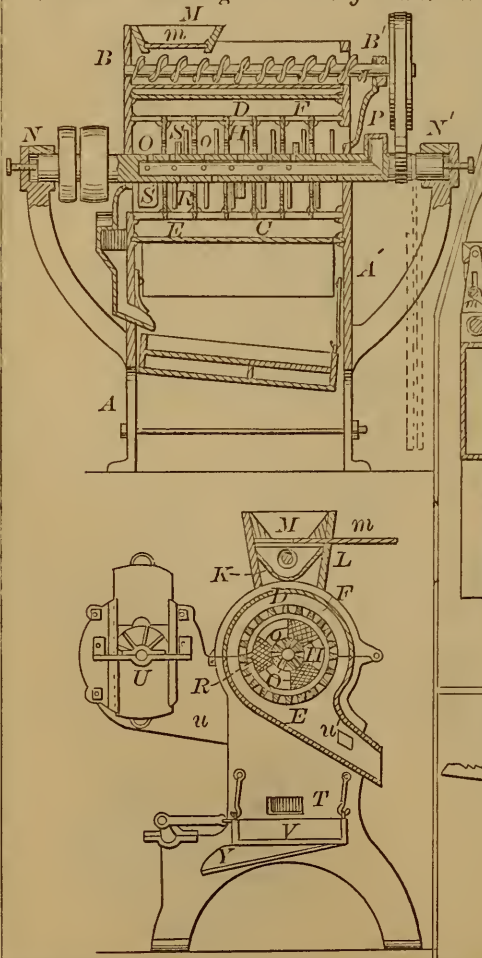
84718—D. C. Thompson—*Beef Steak Cutter and Mangler.*



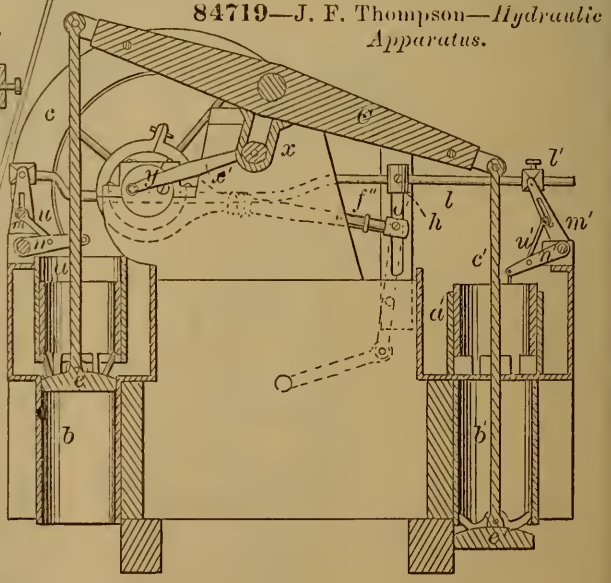
84720—G. G. Townsend—*Last.*



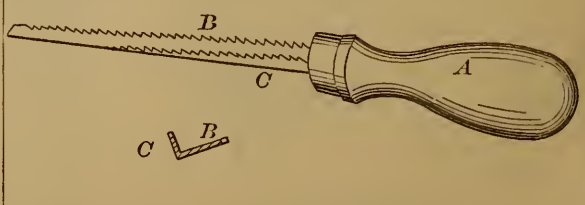
84723—W. Wright—*Hominy and Smut Mill.*



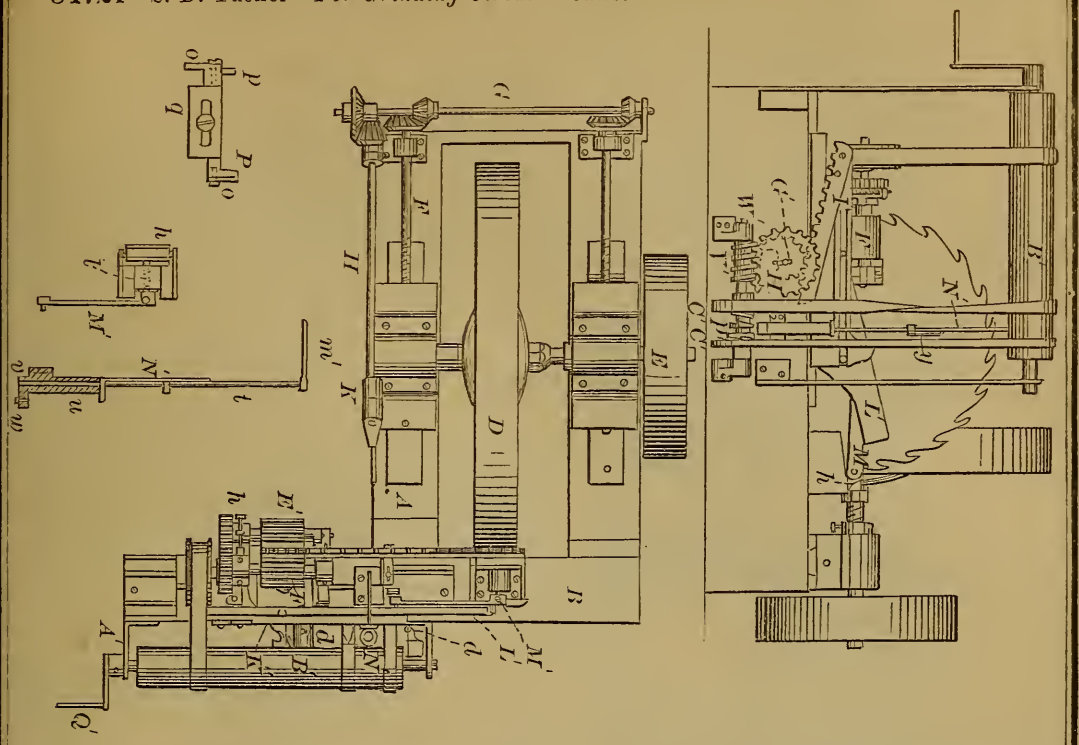
84719—J. F. Thompson—*Hydraulic Apparatus.*



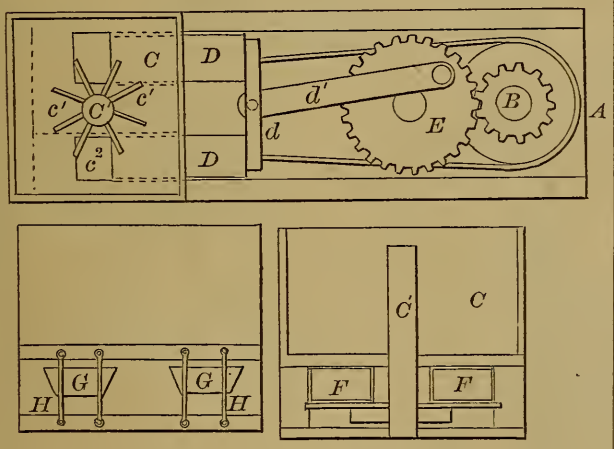
84722—J. L. Warren—*Saw.*



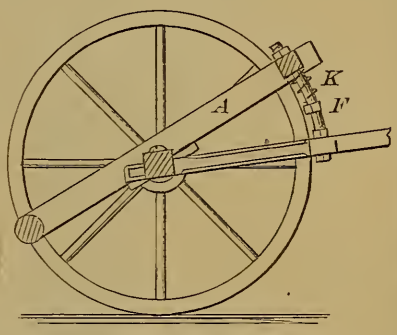
84721—S. D. Tucker—*For Grinding Circular Saws.*



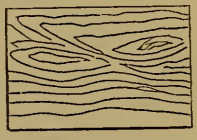
84724—Ballard & Bond—*Brick Machine.*



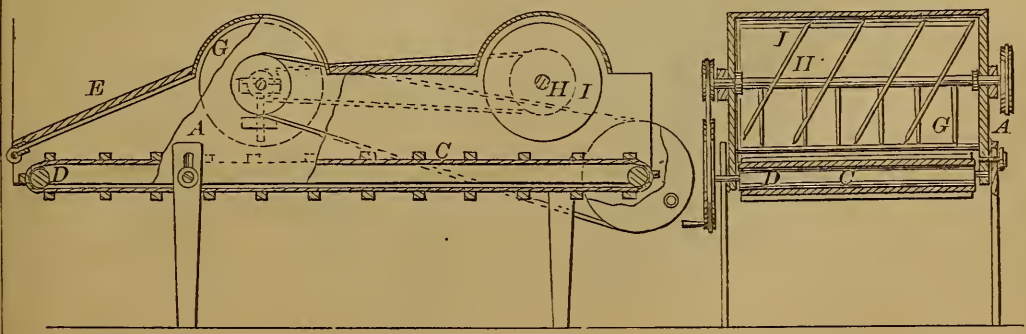
84725—A. B. Barnard—*Hay Spreader.*



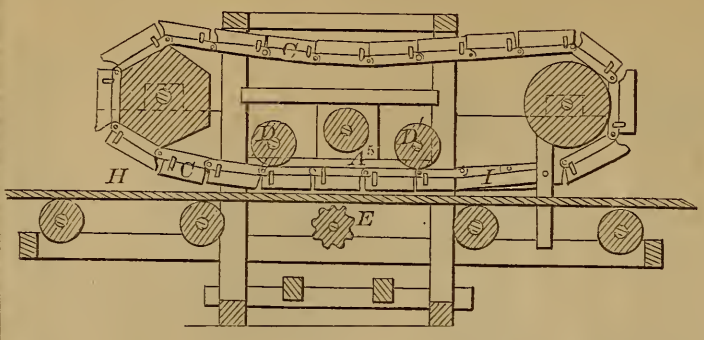
84728—J. Bongardt—*Process and Composition for Printing the Grain of Wood.*

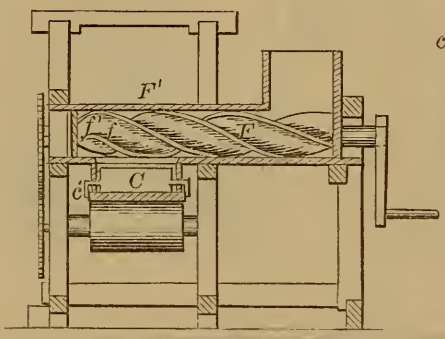


84726—Biggs, Butler & Granger—*Band Cutter and Threshing Machine Feeder.*

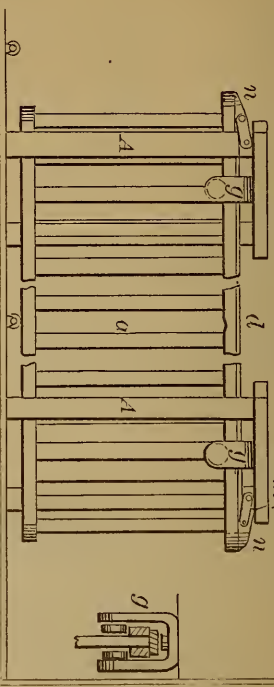


84727—E. S. Bitner—*Brick Machine.*

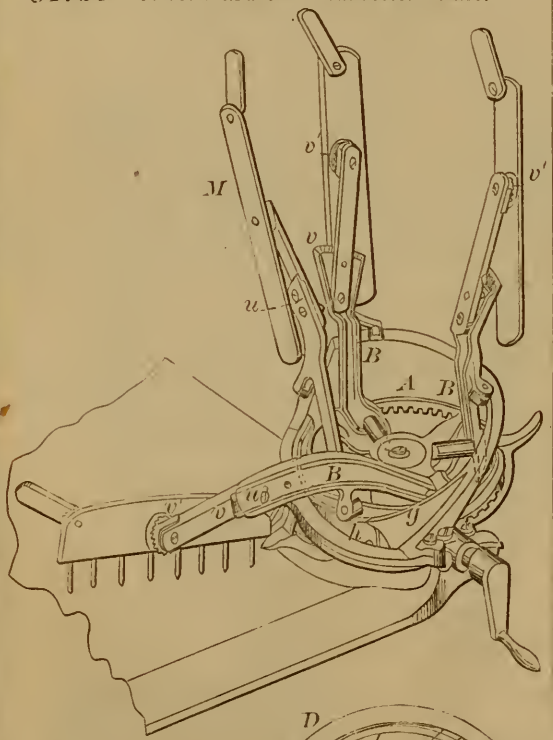


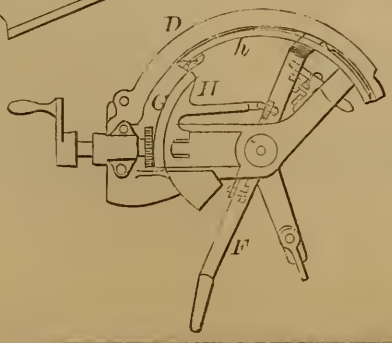


84729—E. & A. Buckman—*Gate.*

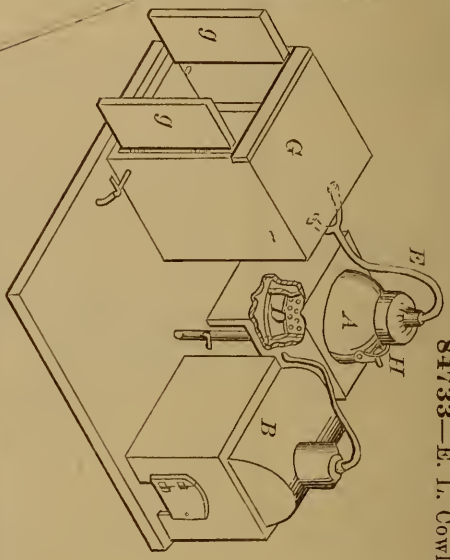


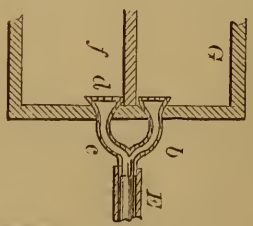
84730—O. H. Burdick—*Harvester Rake.*



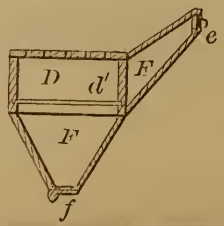


84733—E. L. Cowling—*Preserving Wood.*



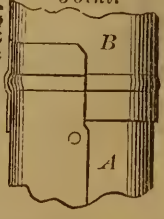


84735—A. Davidsohn—*Railroad Car Heater.*

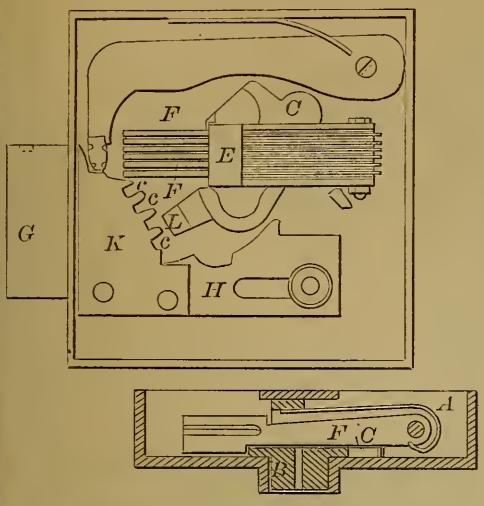


Stove Pipe Joint.

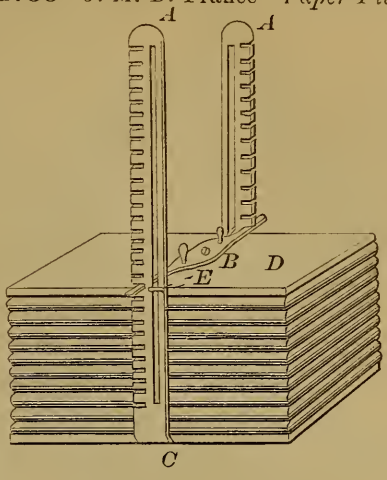
84736—J. Faint—



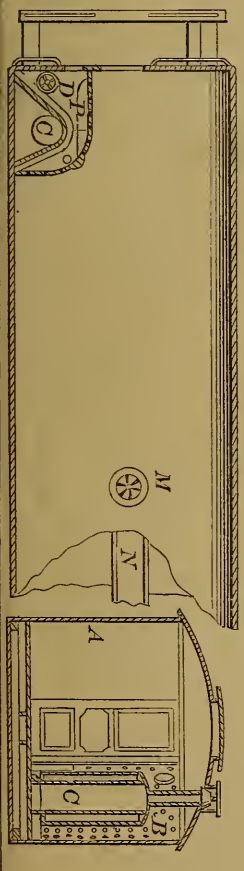
84737—Fleischel & Bussey—*Door Lock.*



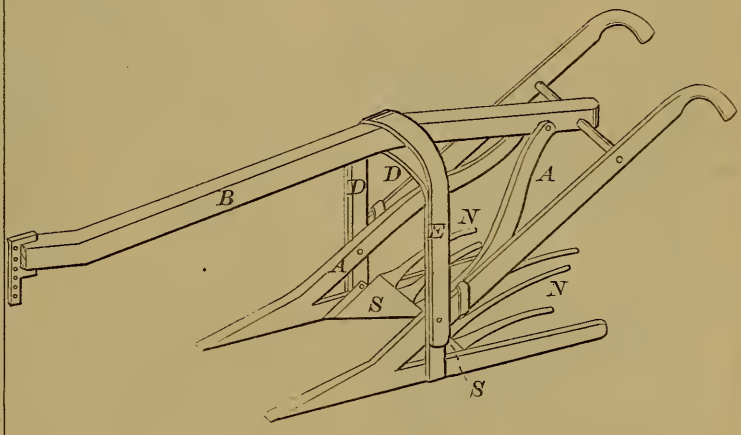
84738—J. M. D. France—*Paper File.*



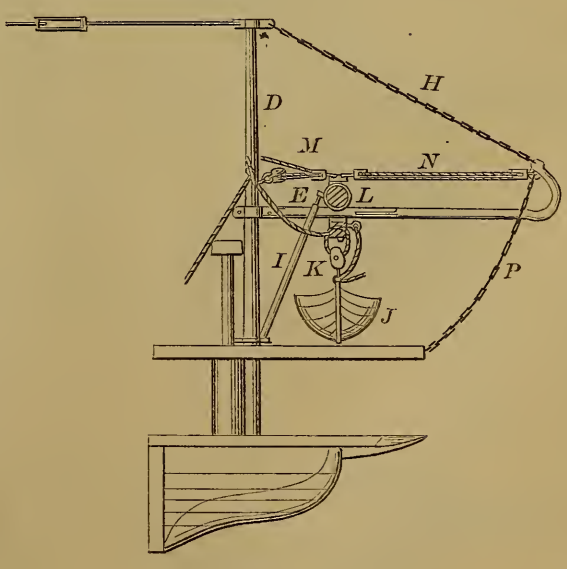
84740—A. J. Gibson—*Heating and Lighting Apparatus on Railway Cars.*



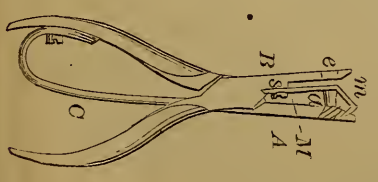
84741—Giles & Ferry—*Potato Digger.*



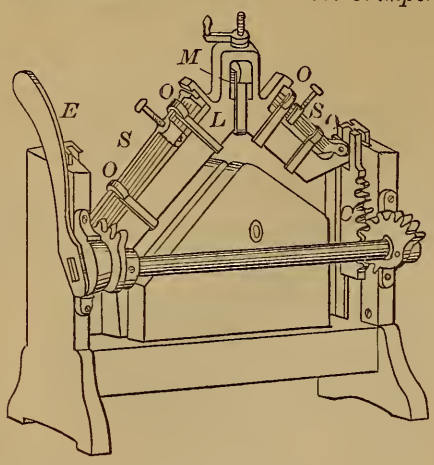
84742—Gill & Woods—*Ship's Davit.*



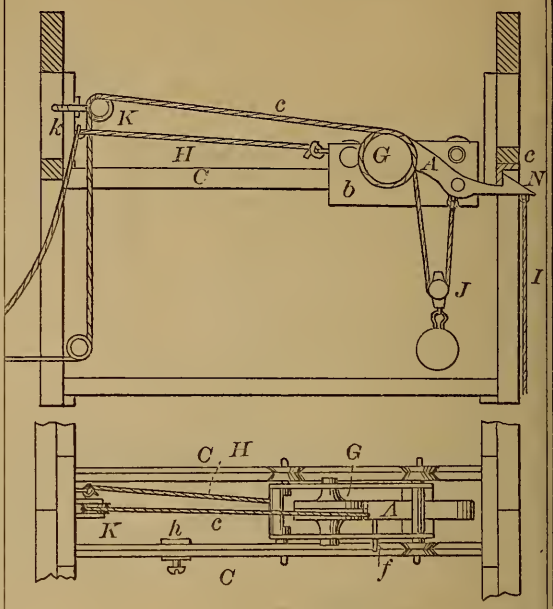
84739—J. & G. D. Friese—*Punch.*



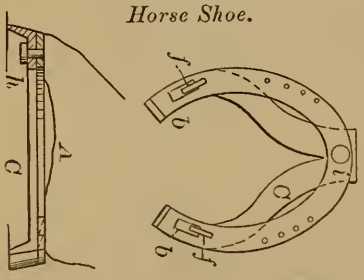
84743—W. B. Gleason—*Boot Crimper.*



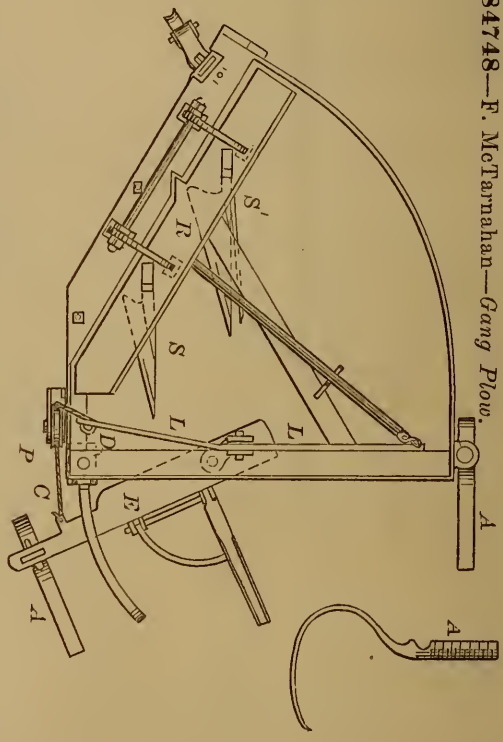
84744—J. E. Hollister—*Elevator.*



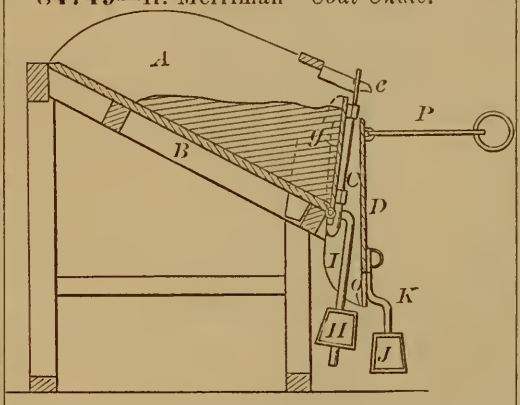
84745—Jameson & Chamberlain—*Horse Shoe.*



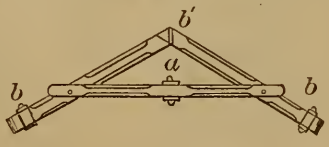
84748—F. McTarnahan—*Gang Plow.*



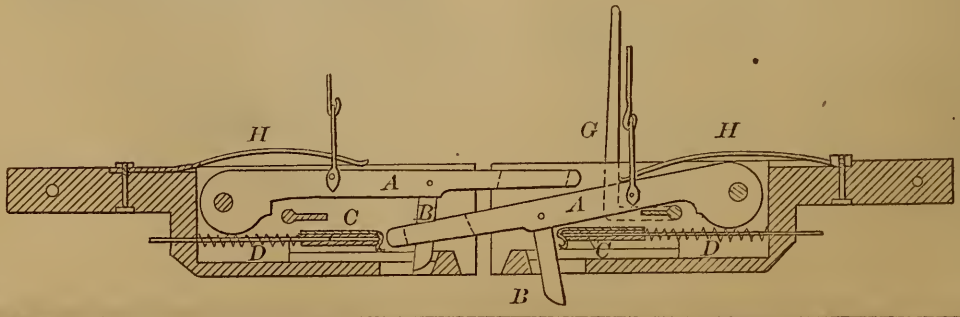
84749—H. Merriman—*Coal Chute.*



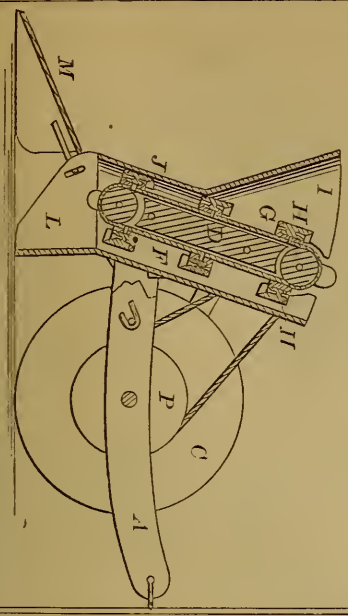
84750—L. E. Morey—*Plow Attachment.*



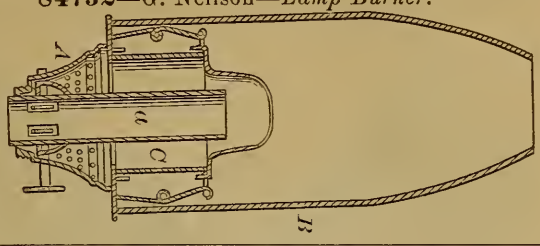
84747—C. McInturff—*Car Coupling.*



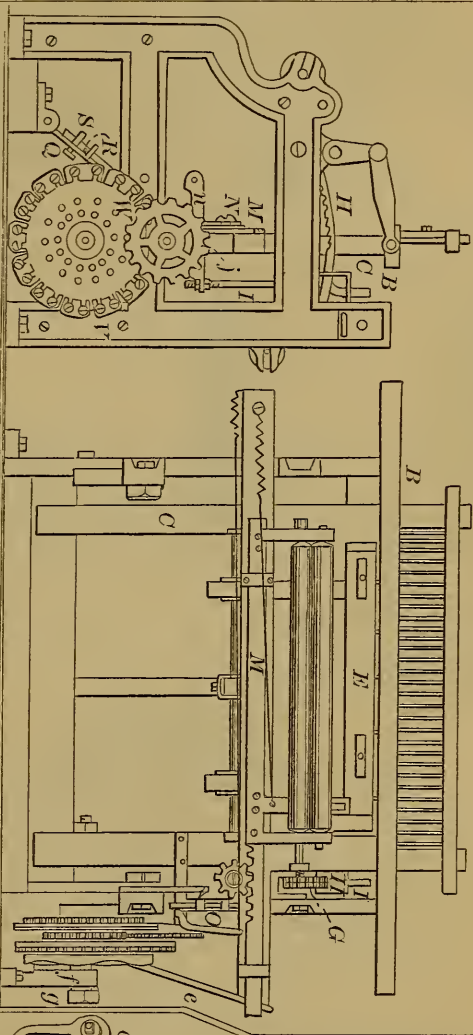
84751—J. Musgrave—*Seed Planter.*



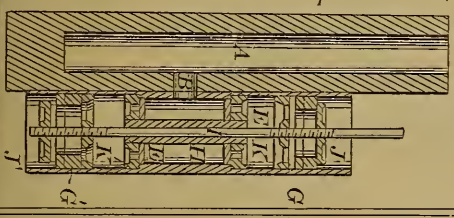
84752—G. Neilson—*Lamp Burner.*

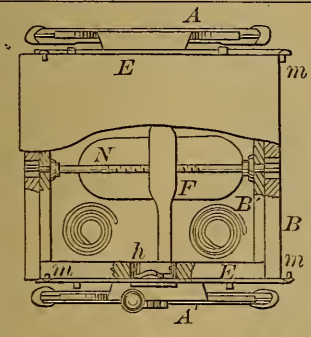


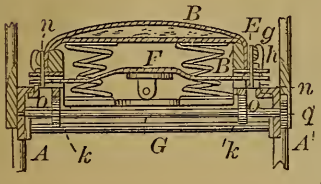
84753—F. W. Newton—*Loom.*



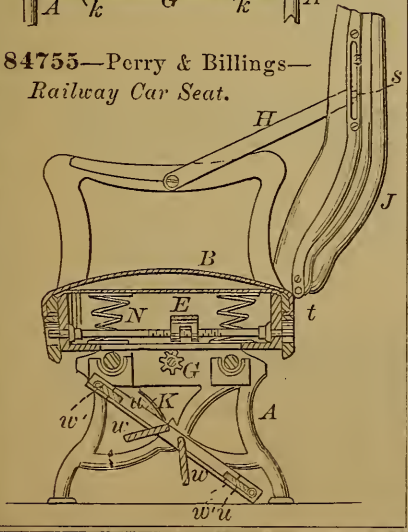
84754—A. Palmer—*Pump.*



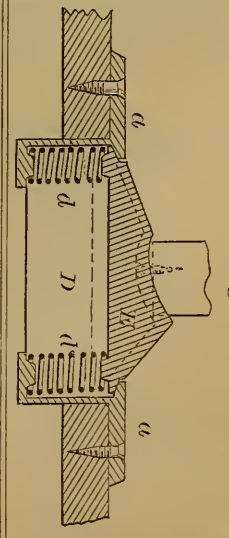




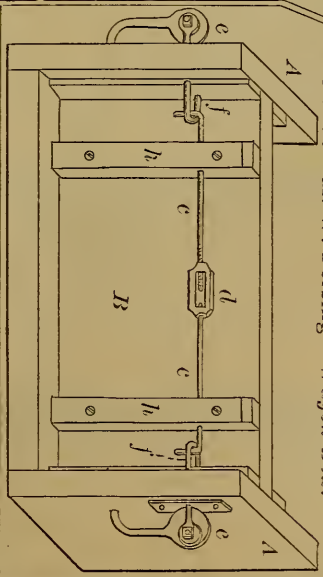
84755—Perry & Billings—*Railway Car Seat.*



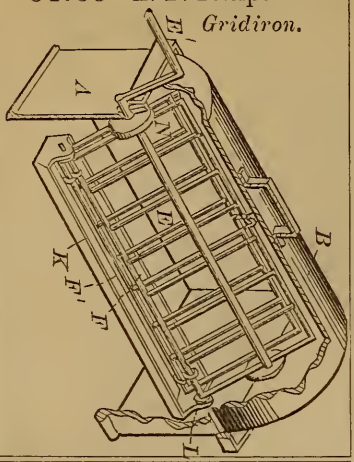
84756—Perry & Billings—*Door Retainer.*



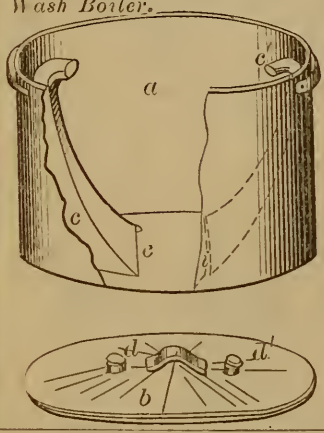
84757—H. W. Persing—*Wagon Box.*



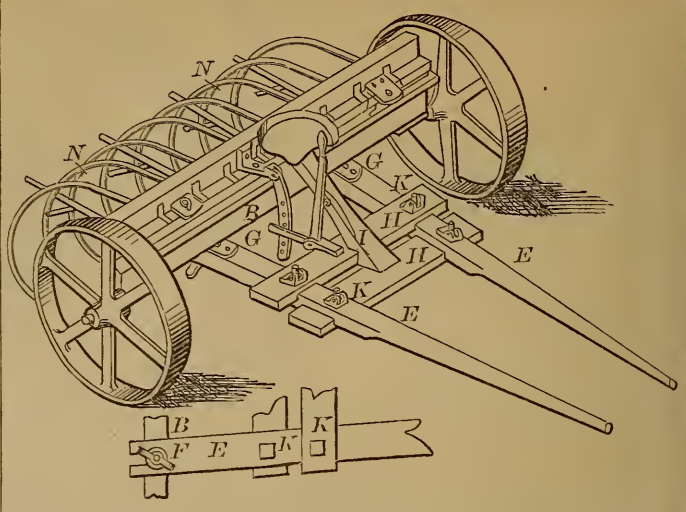
84758—E. B. Phelps—*Gridiron.*



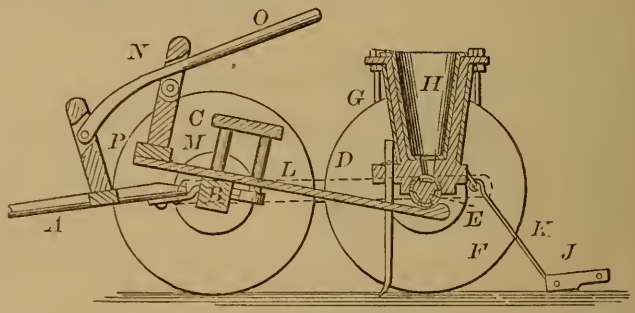
84759—D. A. Porterfield—*Wash Boiler.*



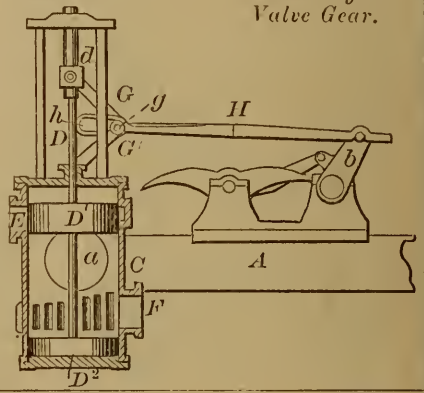
84760—A. R. Reese—*Horse Rake.*

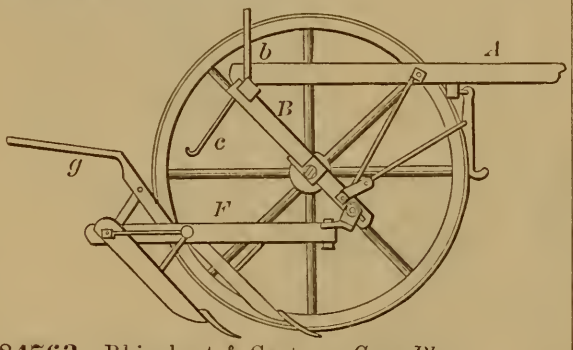


84762—I. Rexford—*Seed Planter.*



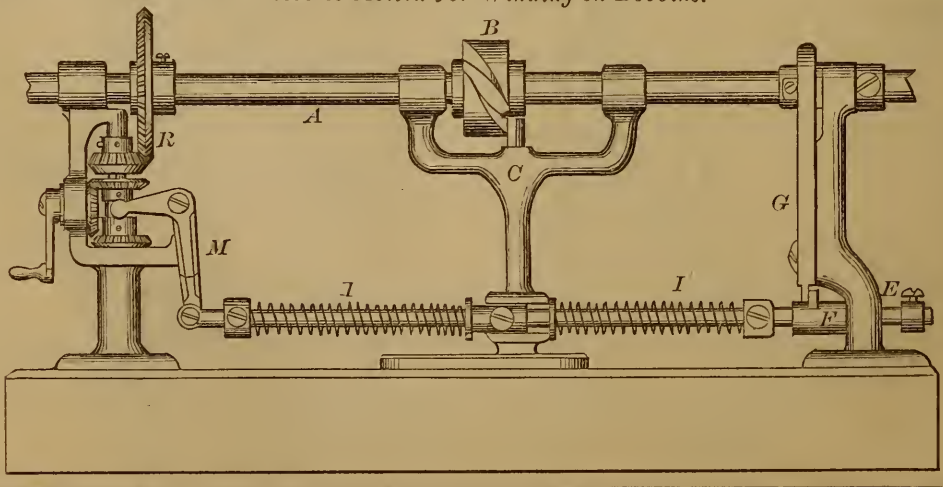
84761—H. Reid—*Steam Engine Valve Gear.*



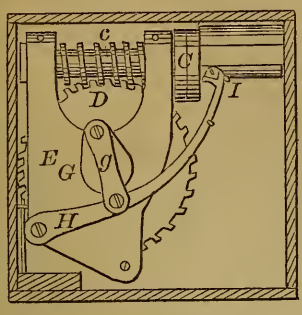


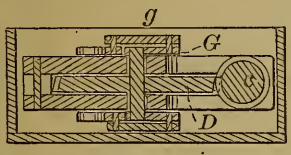
84763—Rhinehart & Gaston—*Corn Plow.*

84764—G. Richardson—*Reverse Motion for Winding on Bobbins.*

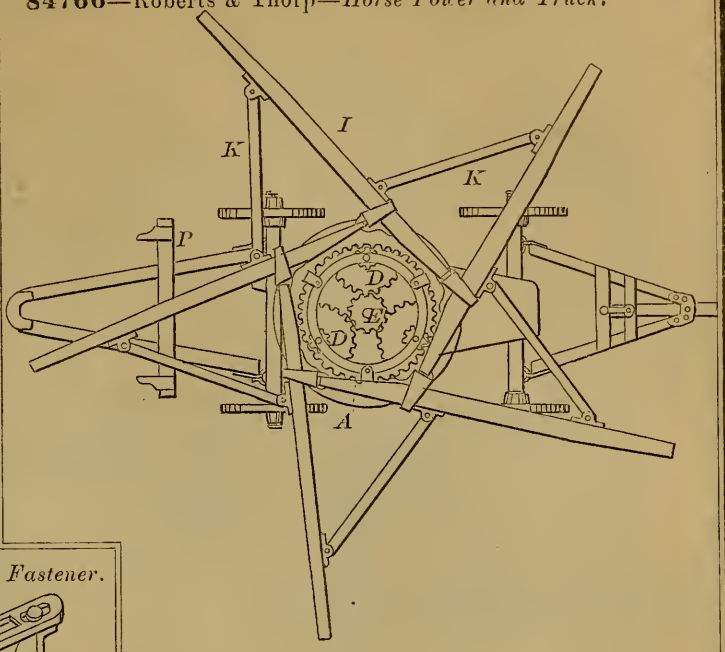


84765—C. M. Reid—*Journal Lubricator.*

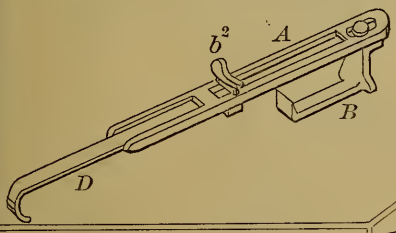


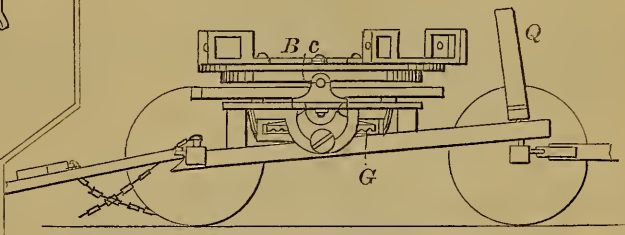


84766—Roberts & Thorp—*Horse Power and Truck.*

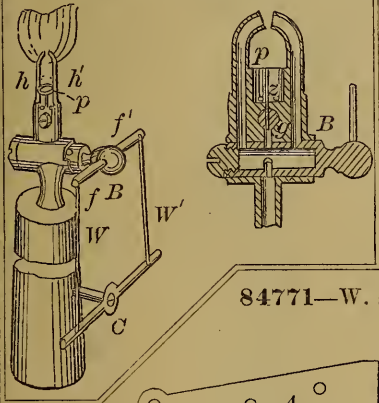


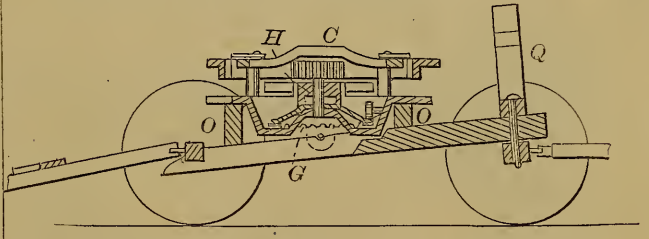
84767—W. J. Ross—*Door Fastener.*



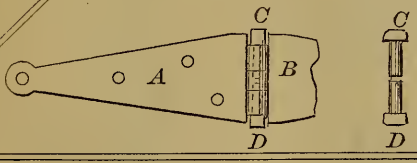


84768—E. P. Russell—*Gas Burner.*

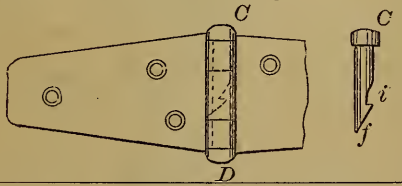




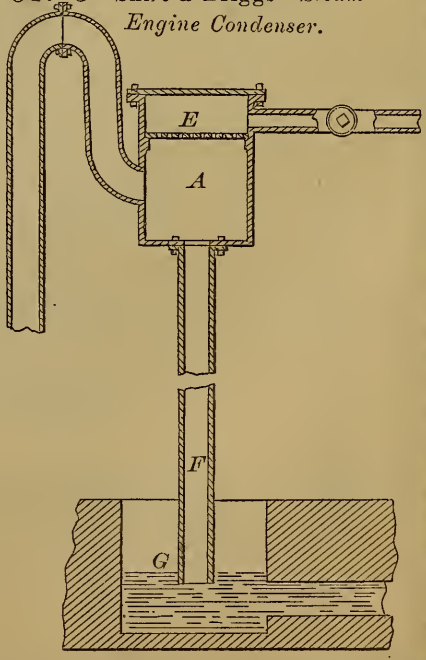
84771—W. Shannon—*Hinge.*



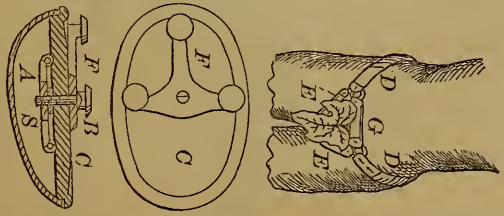
84772—W. Shannon—*Hinge.*



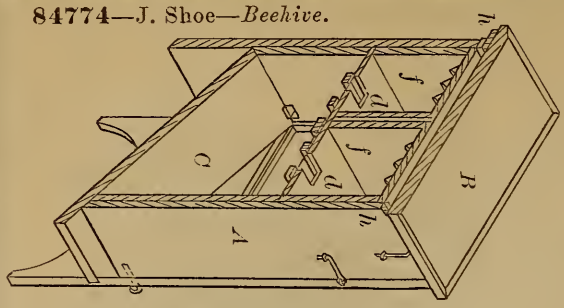
84773—Shirt & Briggs—*Steam Engine Condenser.*



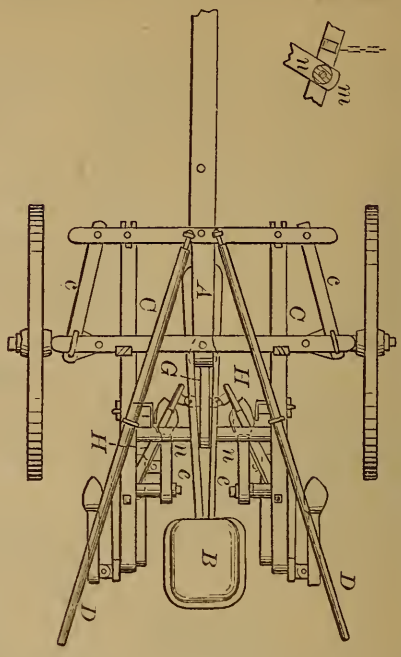
84769—W. Sanborn—*Truss.*



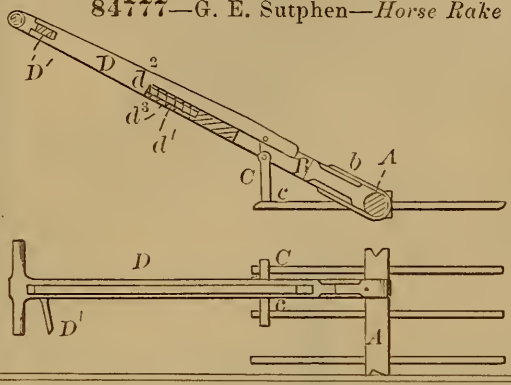
84774—J. Shoe—*Beehive.*



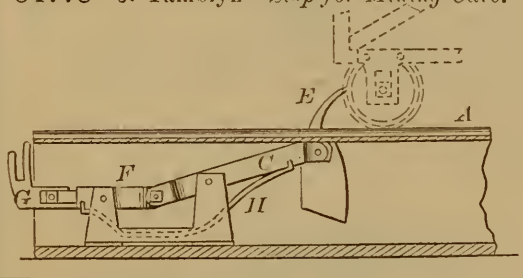
84776—G. B. St. John—*Cultivator.*



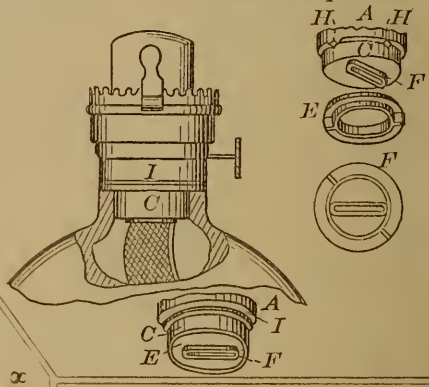
84777—G. E. Sutphen—*Horse Rake*



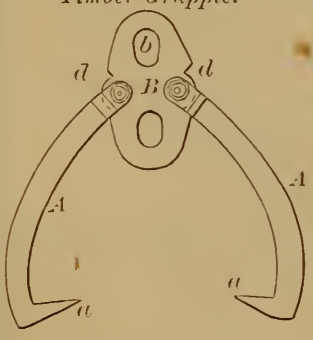
84778—J. Tamblyn—*Stop for Mining Cars.*



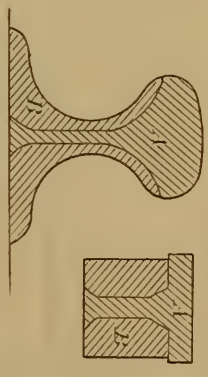
84775—A. G. Smith—*Lamp Burner.*



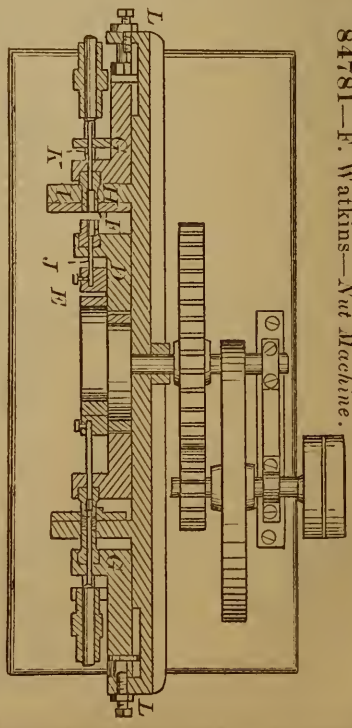
84780—M. N. Ward—*Timber Grapple.*



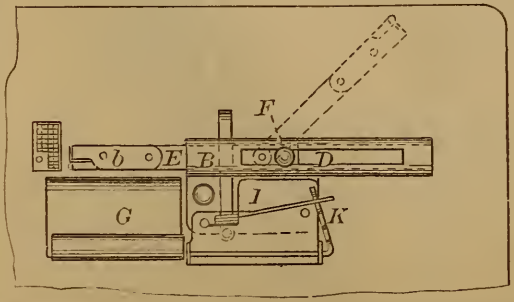
84779—T. R. Taylor—*Pile for Railroad Rails.*



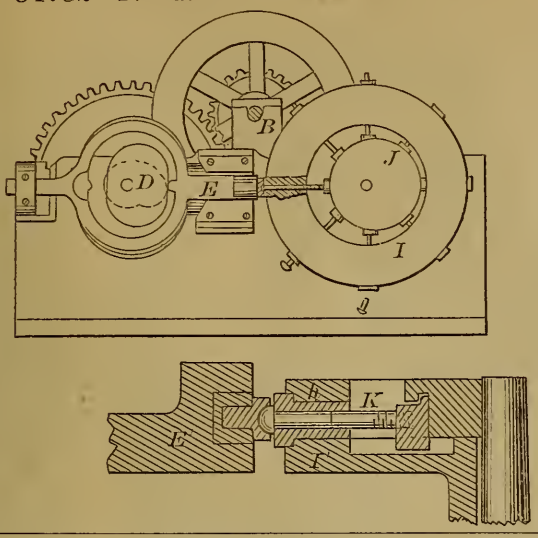
84781—F. Watkins—*Nut Machine.*



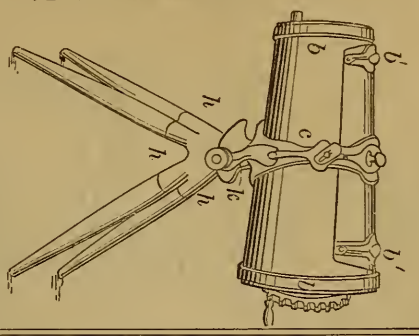
84783—J. Wensley—*Sewing Machine.*



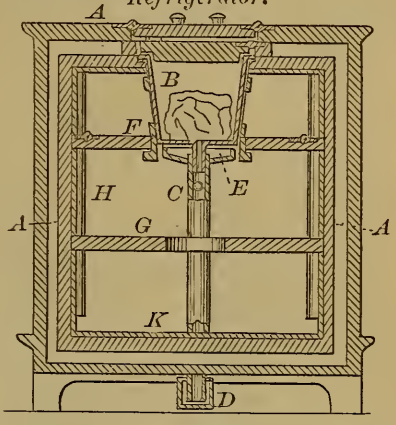
84782—F. Watkins—*Bolt Machine.*



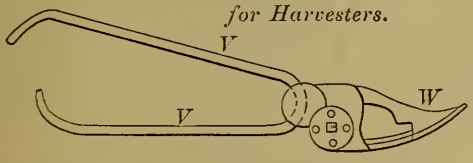
84784—A. Westcott—*Churn.*



84785—S. & D. B. Wheat—*Refrigerator.*

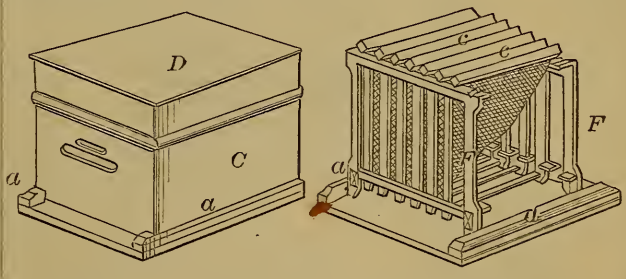


84786—G. W. N. Yost—*Track Clearer for Harvesters.*

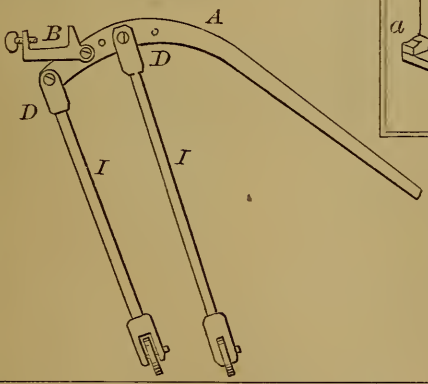


84787—A. Adamson—*Shoulder Brace.*

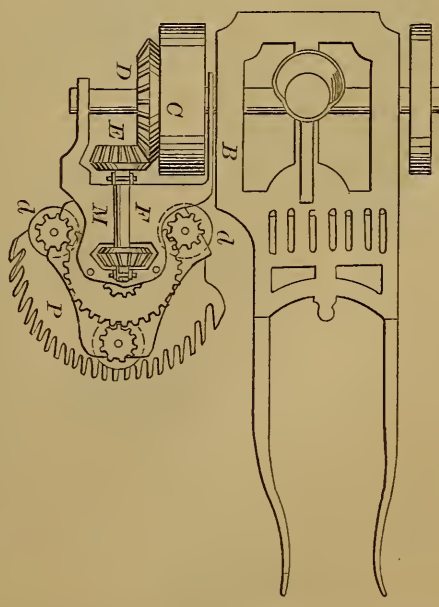
84788—T. R. Allen—*Beehive.*



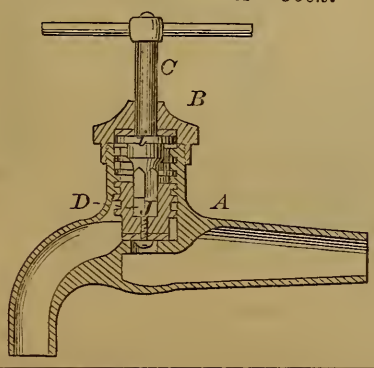
84789—F. L. Bailey—*Car Mover.*



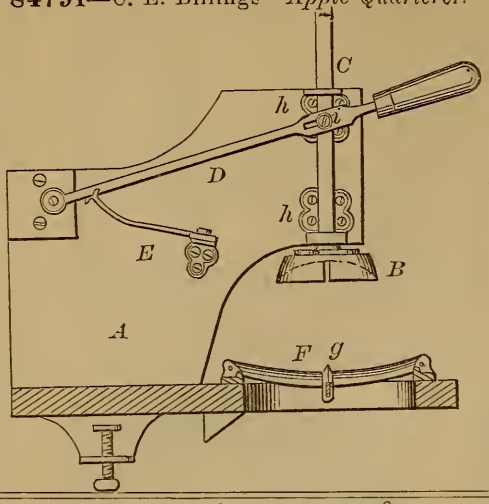
84790—L. D. Bidwell—*Mowing Machine.*



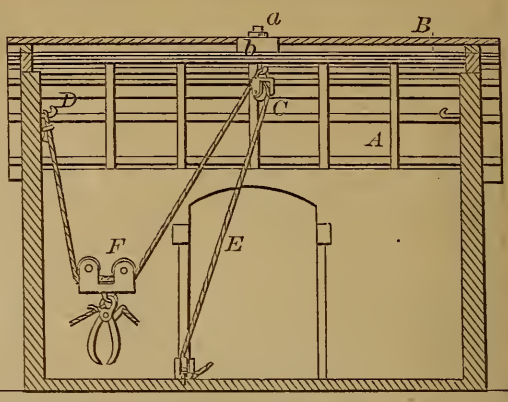
84792—G. E. Boisselier—*Cock.*



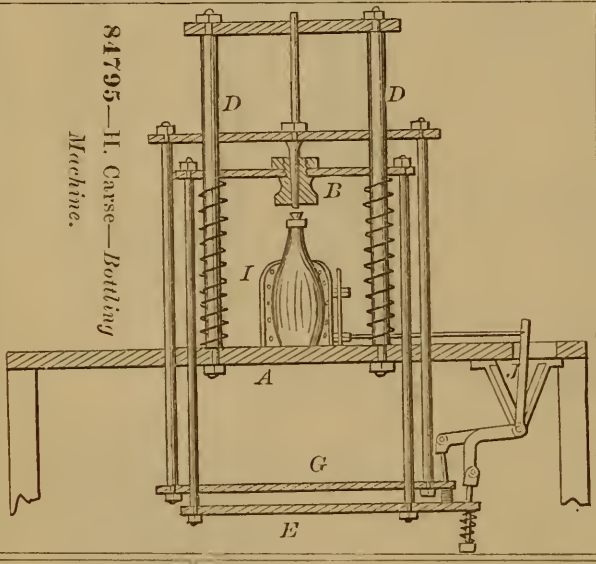
84791—C. E. Billings—*Apple Quarterer.*



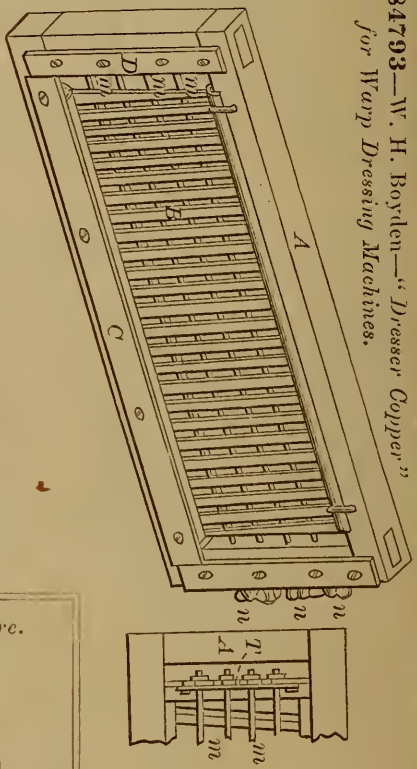
84794—W. D. Brooks—*Elevator.*



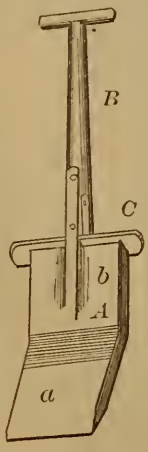
84795—H. Carse—*Bottling Machine.*



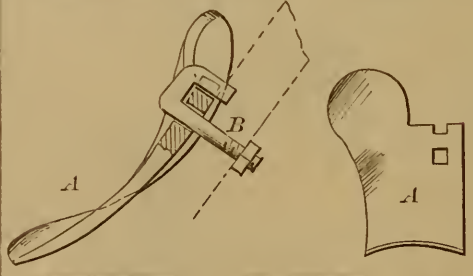
84793—W. H. Boyden—"*Dresser Copper*" *for Warp Dressing Machines.*



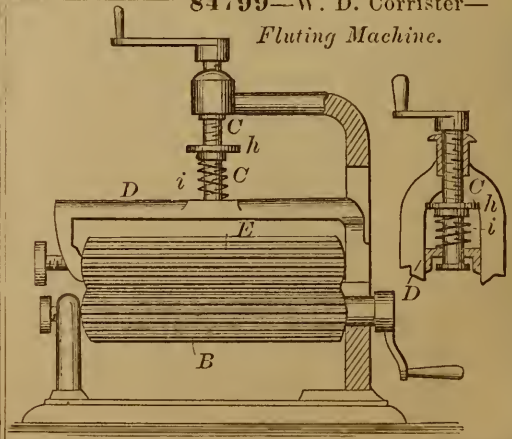
84797—M. Connolly—*Spade.*



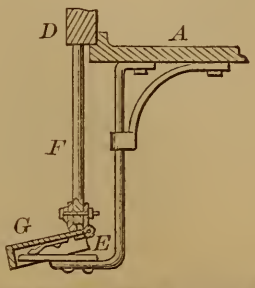
84798—G. W. Cooper—*Plowshare.*



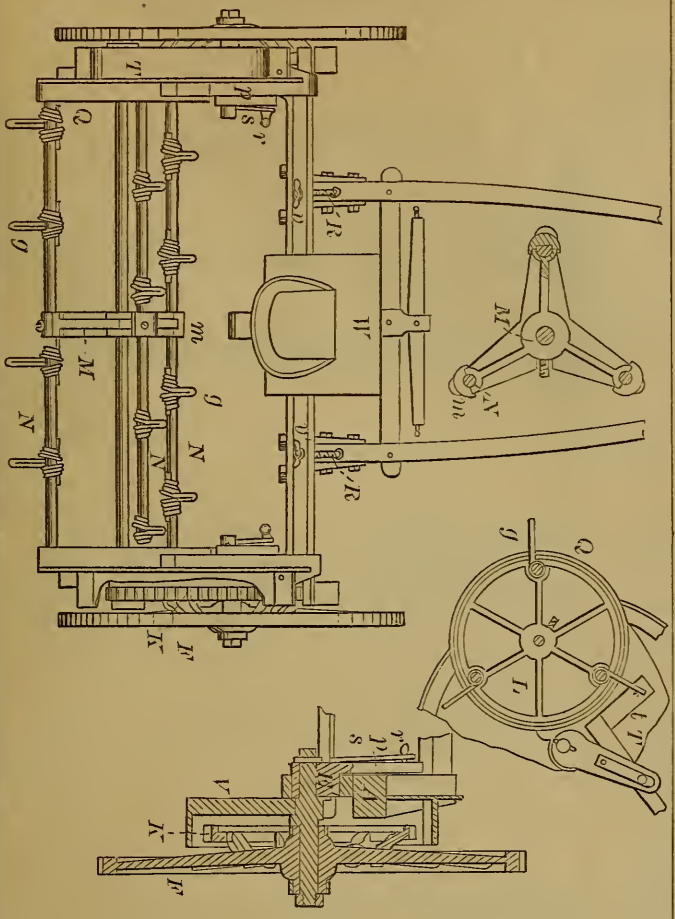
84799—W. D. Corrister—*Fluting Machine.*



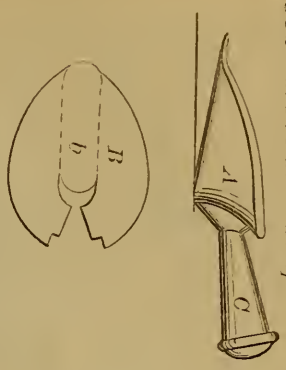
84802—J. Curtis—*Stop Cover and Wheel Fender.*



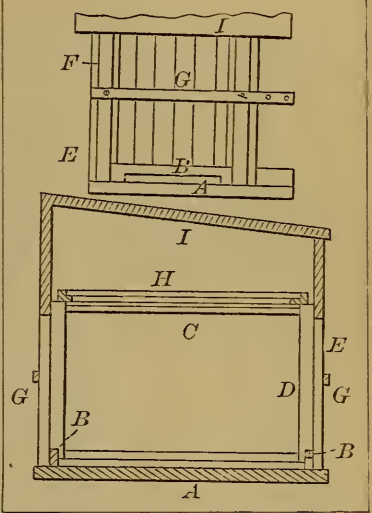
84800—T. C. Craven—*Hay Spreader.*



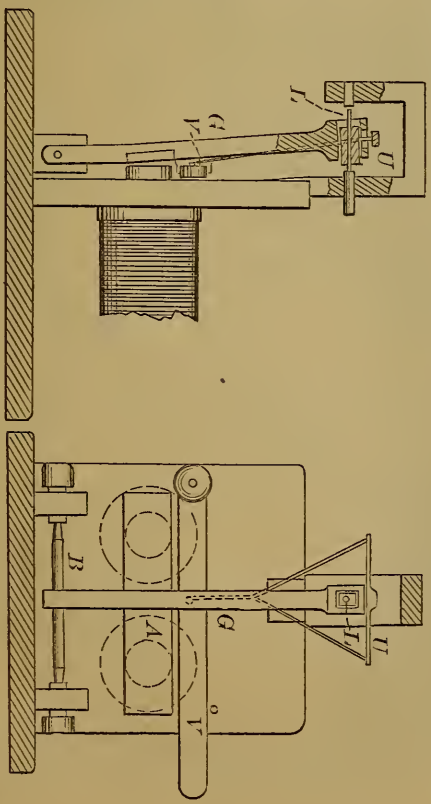
84803—T. B. Davis—*Scoop.*



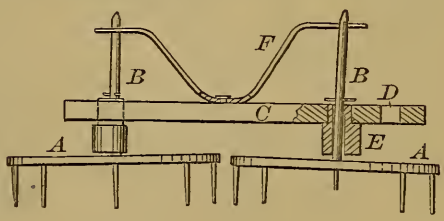
84805—A. P. Durant—*Beehive.*



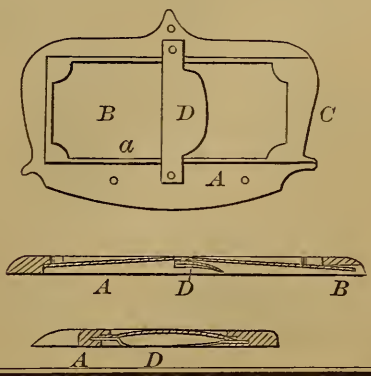
84806—C. Durant—*Electro-Magnetic Relay Instrument.*



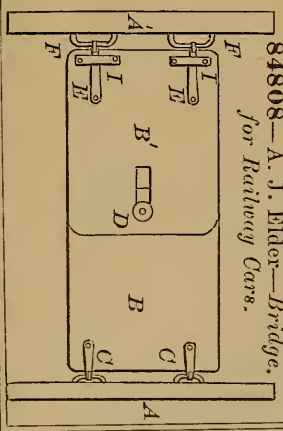
84807—O. W. Edmonds—*Harrow.*



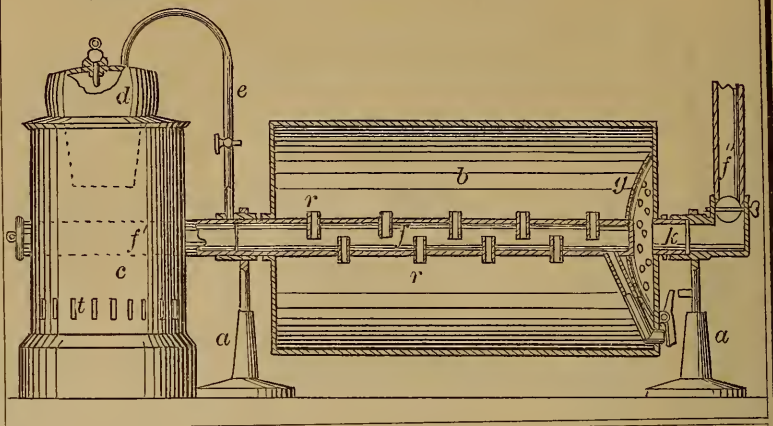
84804—C A. Dickerman—*Label Holder.*



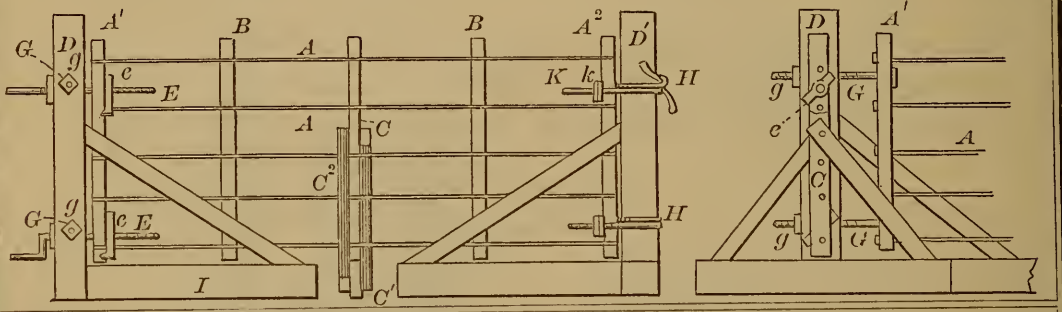
84808—A. J. Elder—*Bridge, for Railway Cars.*



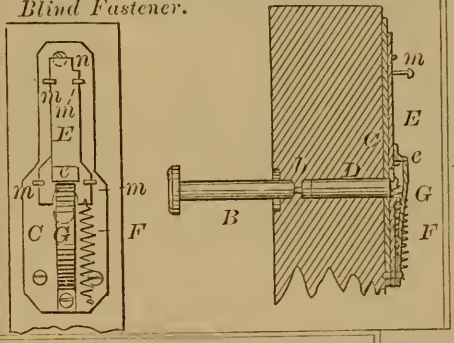
84809—W. H. Elliot—*Feather Renovator.*



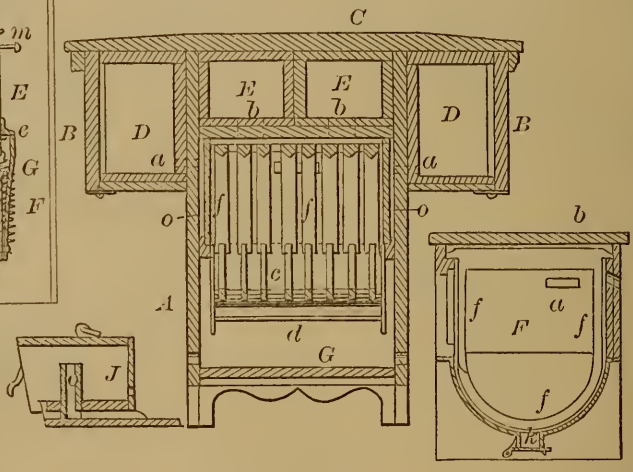
84810—G. W. Ensminger—*Wire Fence.*



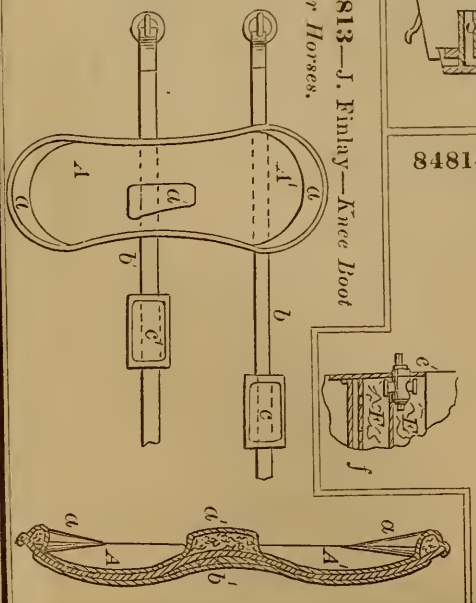
84811—W. B. Farrar—*Shutter and Blind Fastener.*



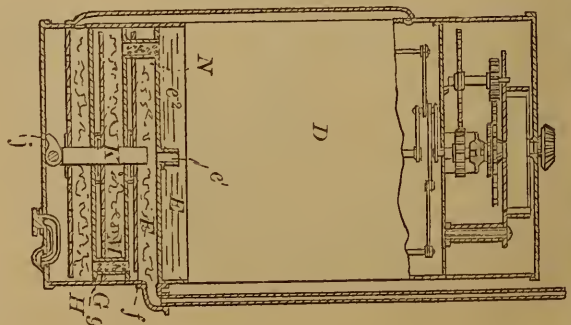
84812—J. F. Fife—*Beehive.*



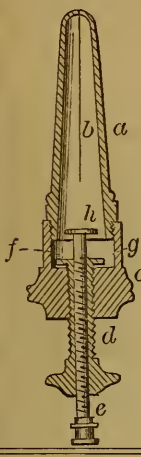
84813—J. Finlay—*Knee Boot for Horses.*



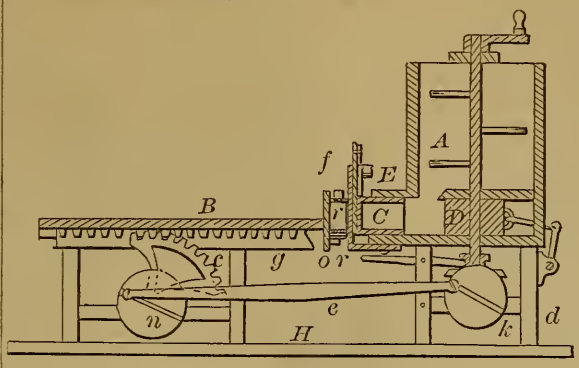
84814—Foster & Ganster—*For Illuminating Railroad Cars and Steamers.*



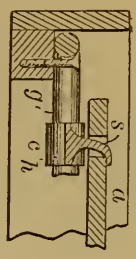
84815—E. F. Garvin—*Instrument for Treating Fistula.*



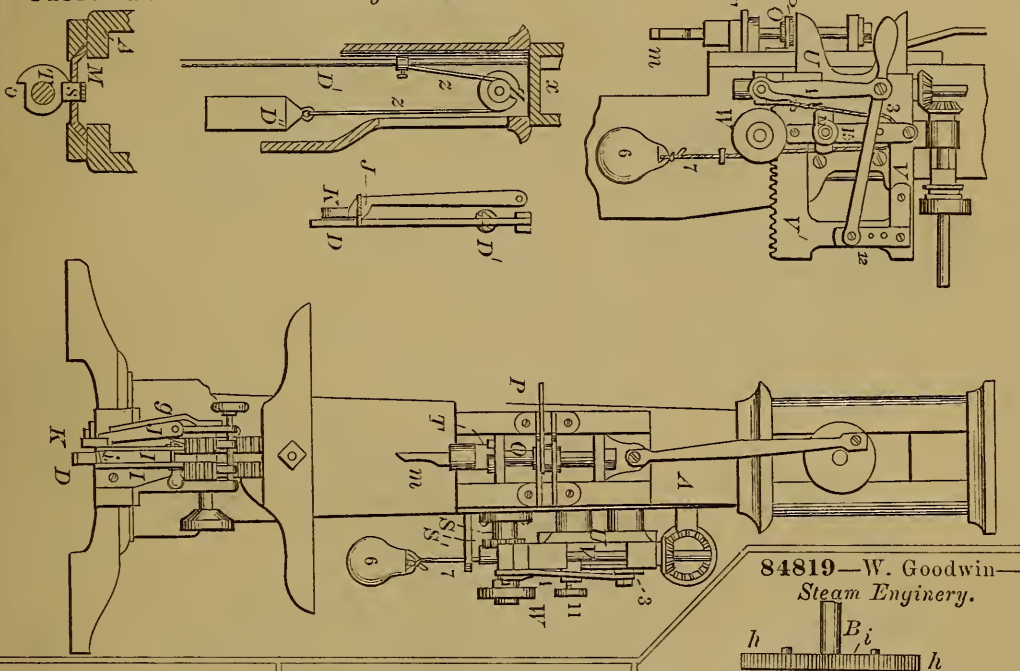
84816—E. Geary—*Brick Machine.*



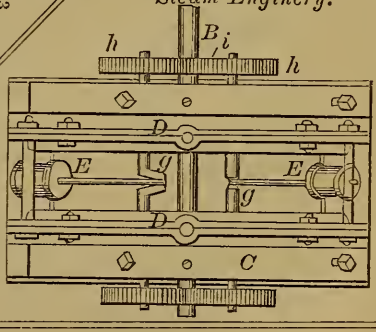
84824—H. N. Hemingway—*Bed Spring.*



84817—D. L. Gibbs—*Mortising Machine.*

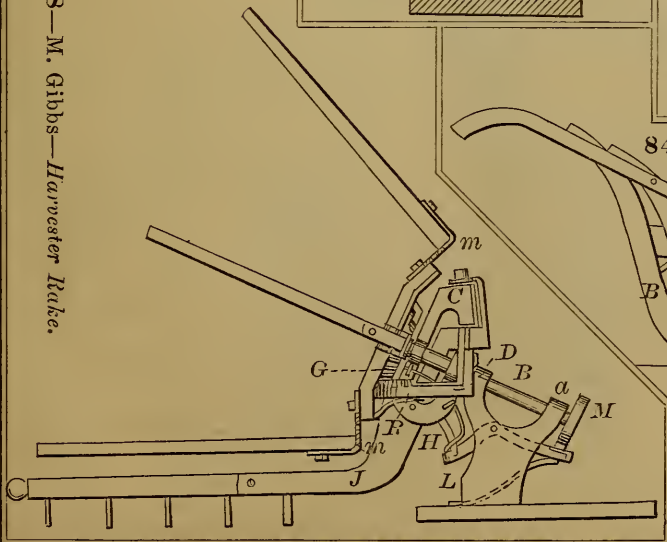


84819—W. Goodwin—*Steam Enginery.*

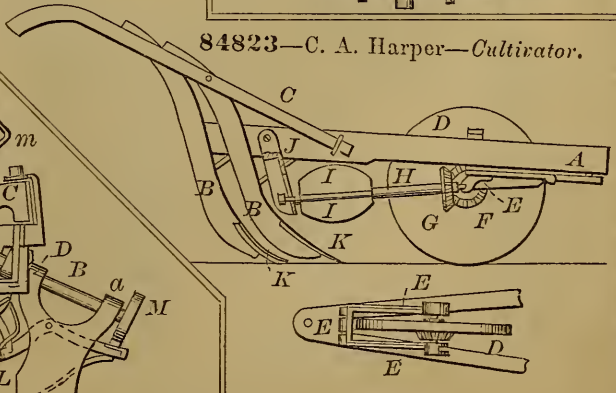


84822—T. F. Hamilton—*Imitation Stone.*

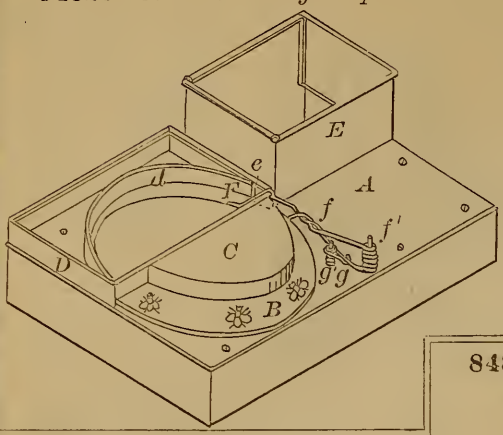
84818—M. Gibbs—*Harvester Rake.*



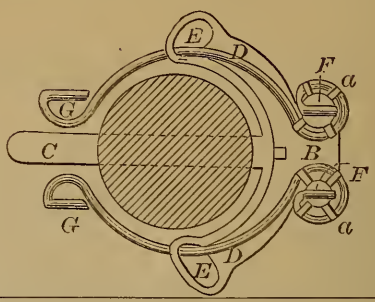
84823—C. A. Harper—*Cultivator.*



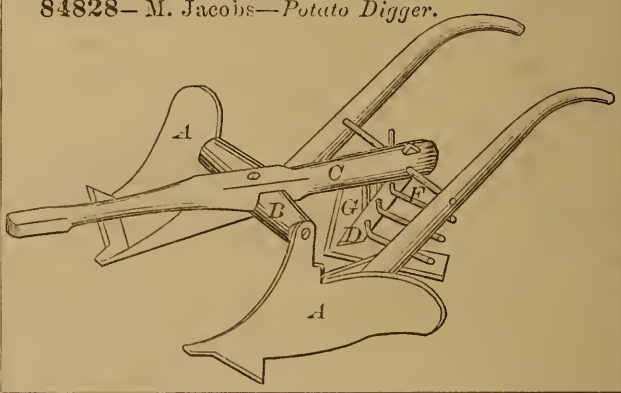
84825—J. Hoover—*Fly Trap.*



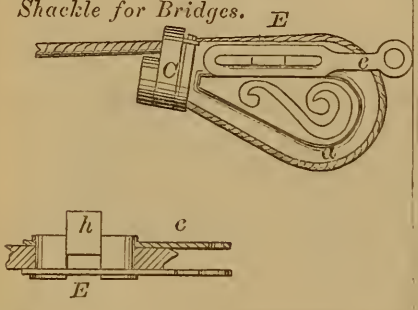
84831—H. P. Judson—*Ox Bow Pin.*



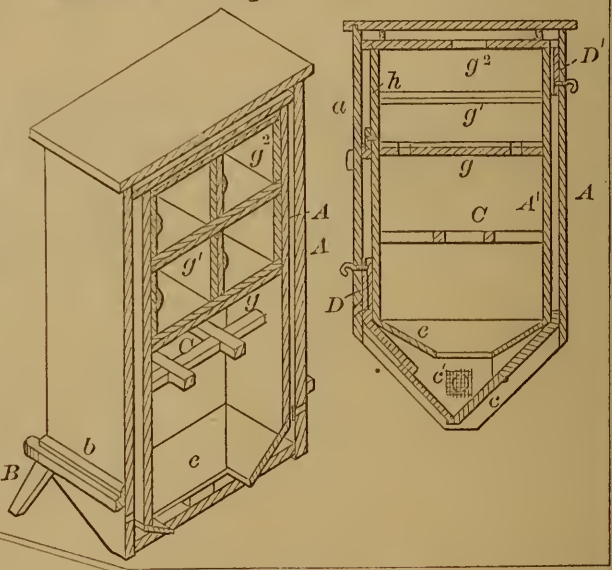
84828—M. Jacobs—*Potato Digger.*



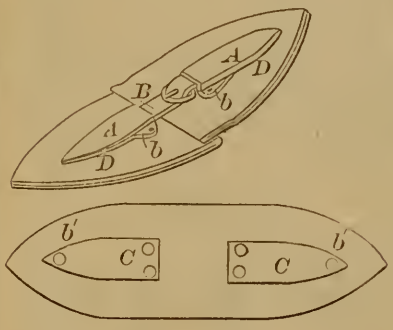
84827—T. G. Hulett—*Cable Shackle for Bridges.*



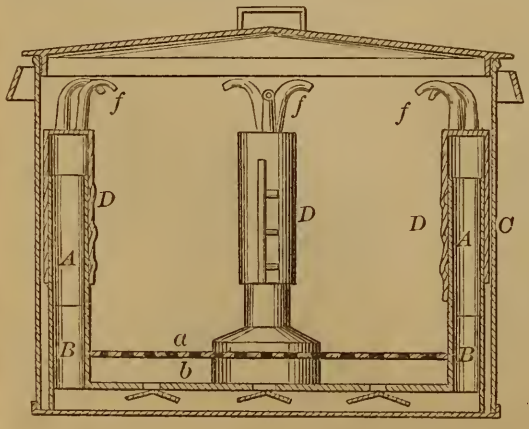
84826—H. O. Hughes—*Beehive.*



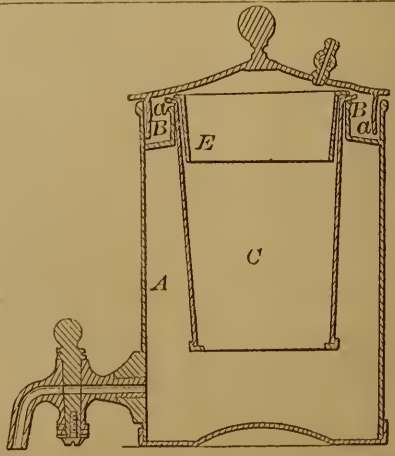
84829—N. Jenny, Jr.—*Carriage Loop and Billet Cover.*



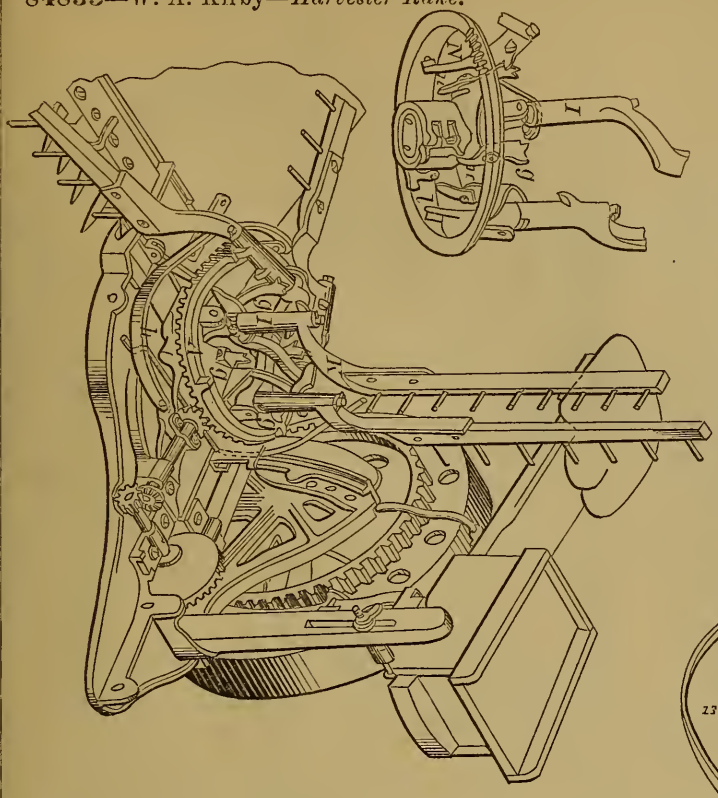
84832—D. Kellogg—*Clothes Boiler.*



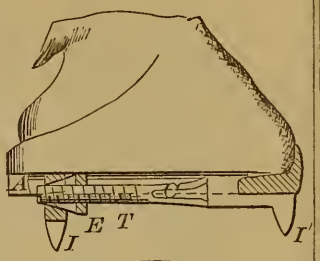
84830—G. Jones—*Coffee Urn.*

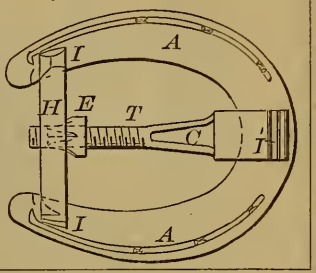


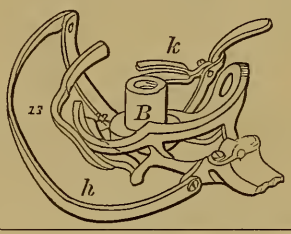
84833—W. A. Kirby—*Harvester Rake.*



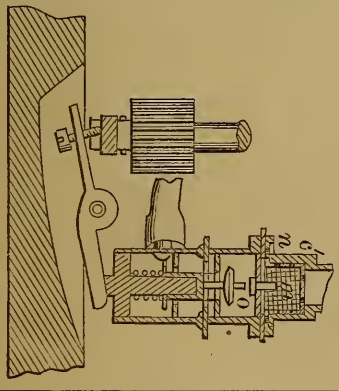
84834—R. Láportà—
Horse Shoe.

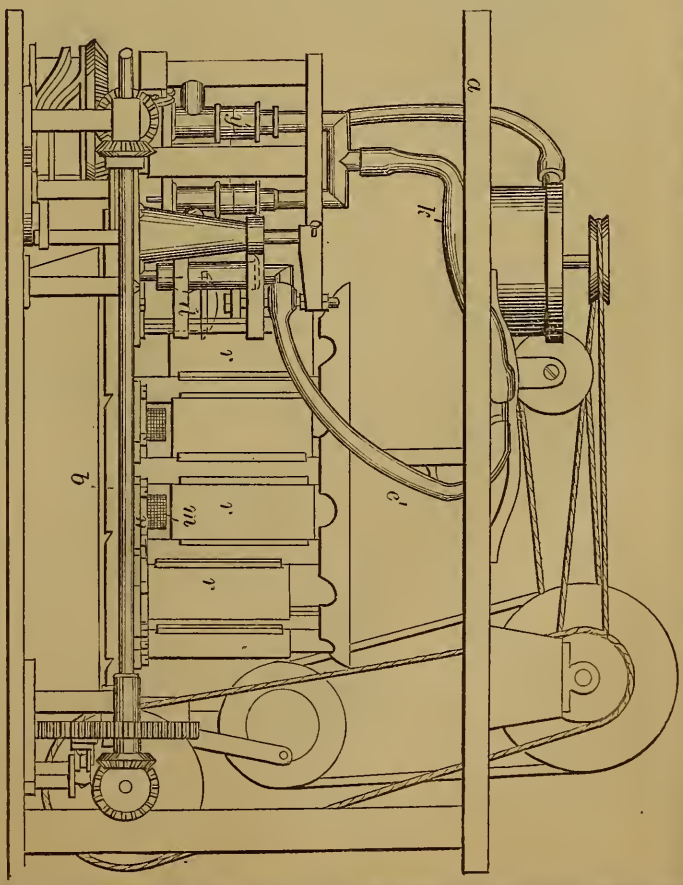




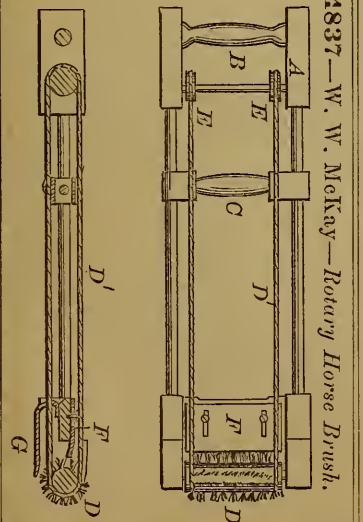


84835—F. Leclère—*For Making Paper Boxes.*

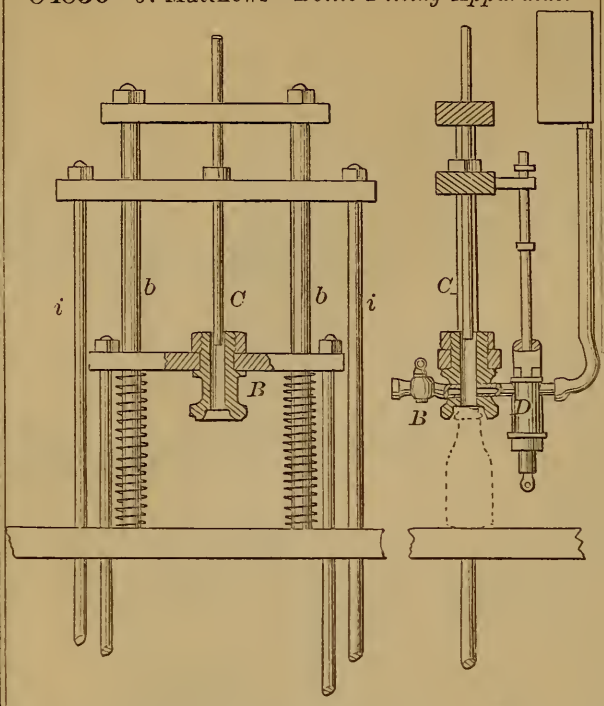




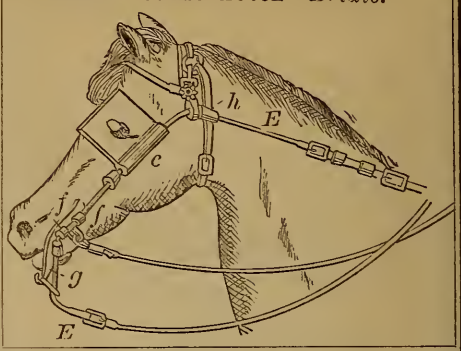
84837—W. W. McKay—*Rotary Horse Brush.*



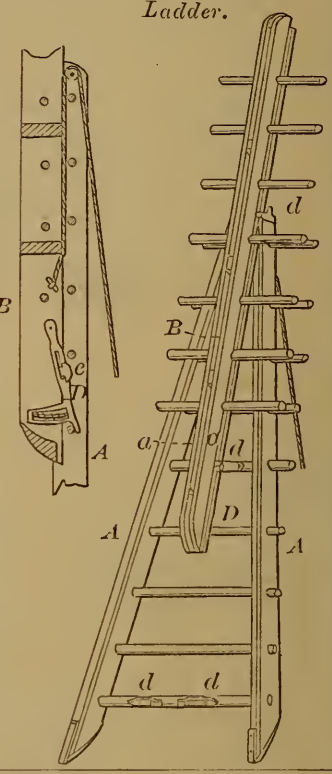
84836—J. Matthews—*Bottle Filling Apparatus.*



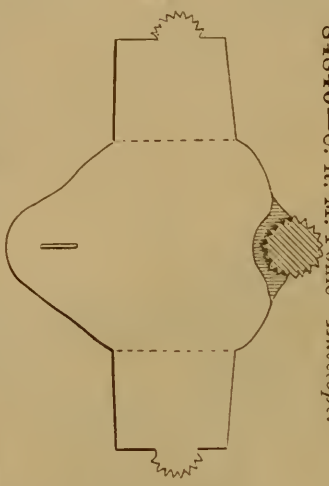
84838—J. McKibben—*Bridle.*



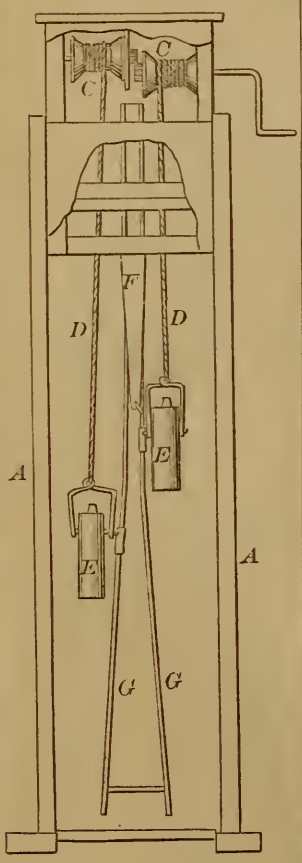
84839—W. Morehead—*Ladder.*



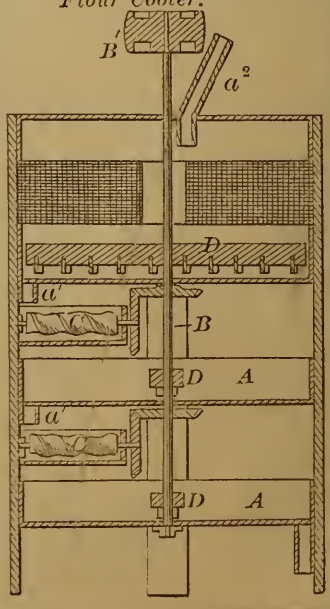
84840—C. R. M. Poble—*Envelope.*



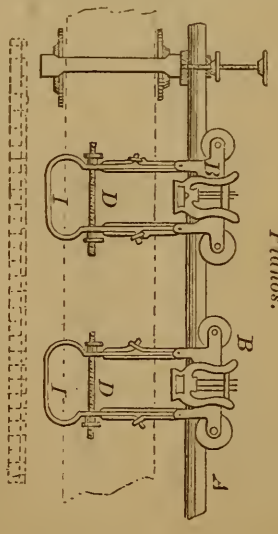
84841—L. Raymond—*Water Elevator.*



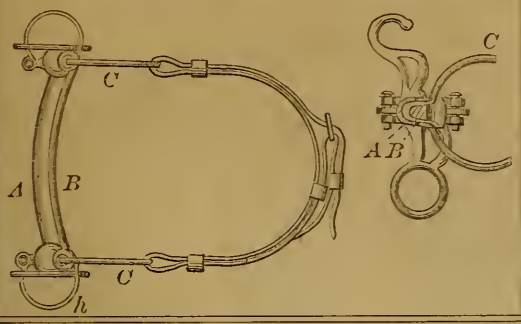
84842—J. S. Reynolds—*Flour Cooler.*



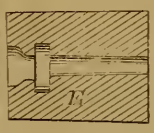
84844—C. Sangalli—*Hand Supporter for Pianos.*



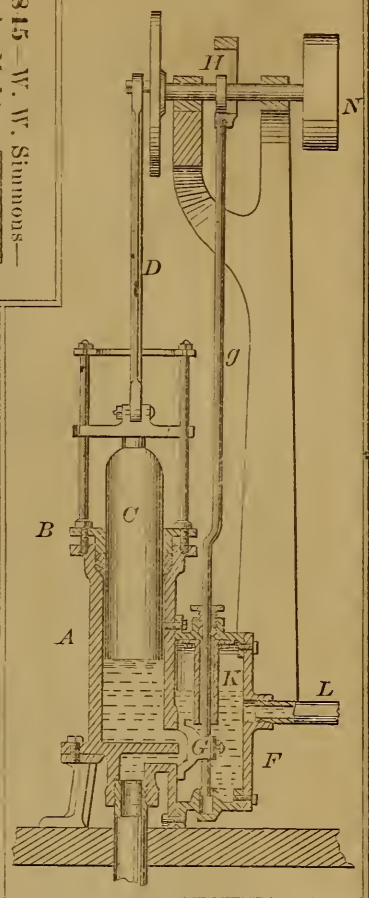
84843—W. S. Robbins—*Bridle Bit.*



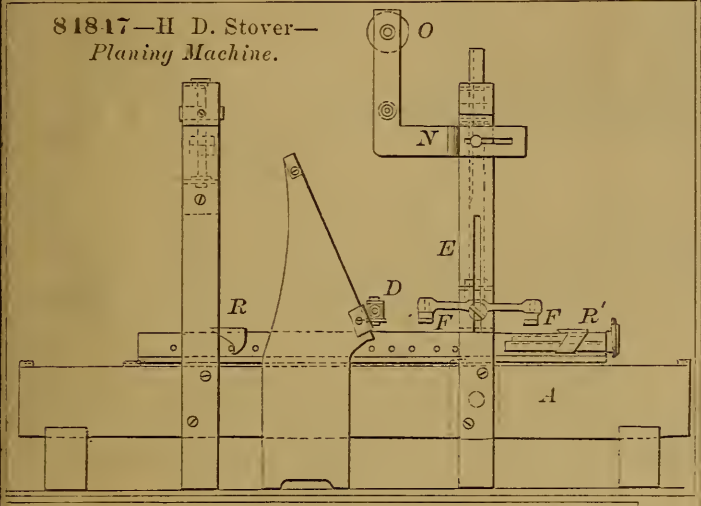
84845—W. W. Simmons—*Die for Making Carriage Axles.*



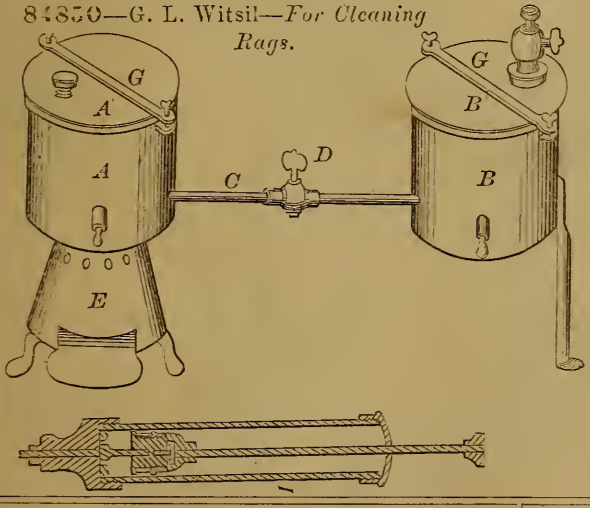
84846—O. Snell—*Pump.*



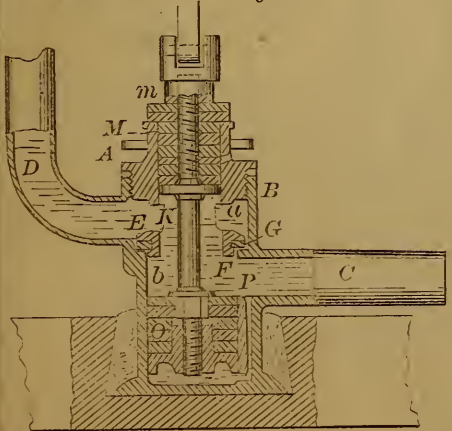
84847—H D. Stover—*Planing Machine.*



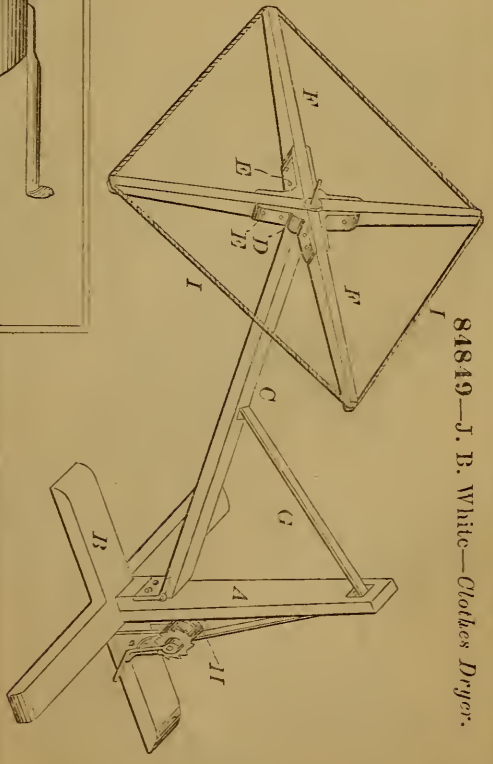
84850—G. L. Witsil—*For Cleaning Rags.*



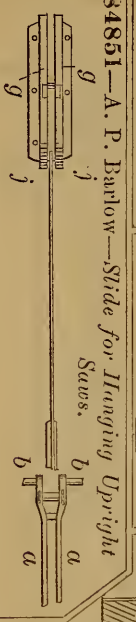
84848—S. Tice—*Hydrant.*



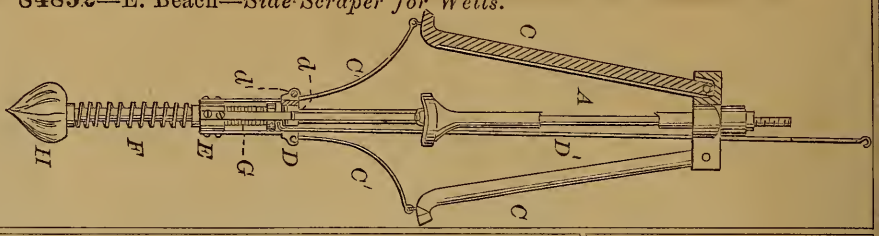
84849—J. B. White—*Clothes Dryer.*



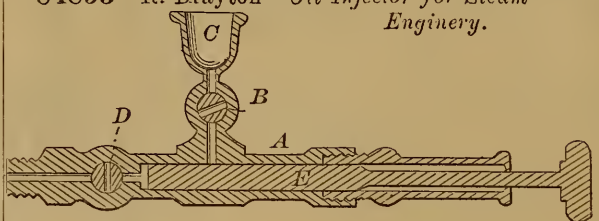
84851—A. P. Barlow—*Slide for Hanging Upright Saws.*



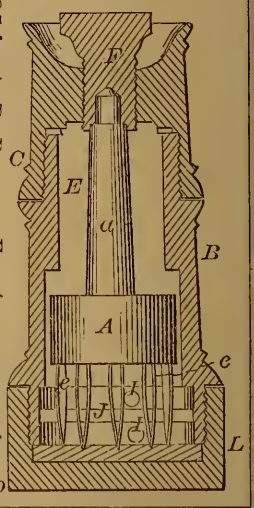
84852—E. Beach—*Side Scraper for Wells.*



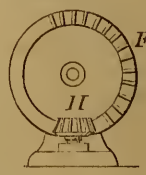
84853—R. Brayton—*Oil Injector for Steam Enginery.*



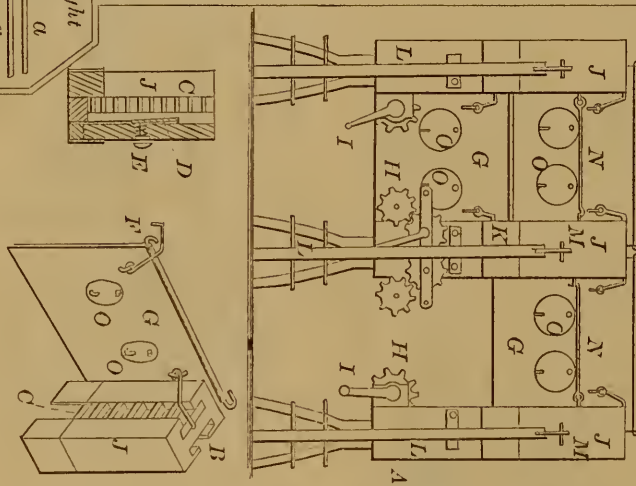
84854—A. R. Brown—*For Acupuncturation.*



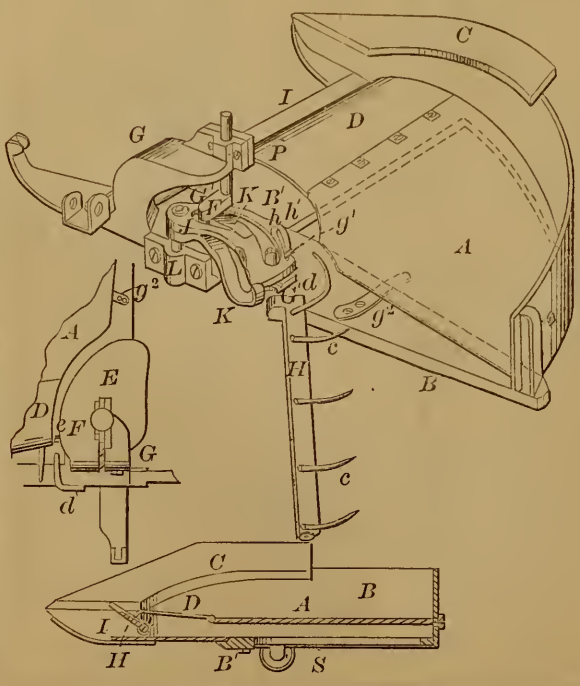
84858—J. Carlton—*Churn.*

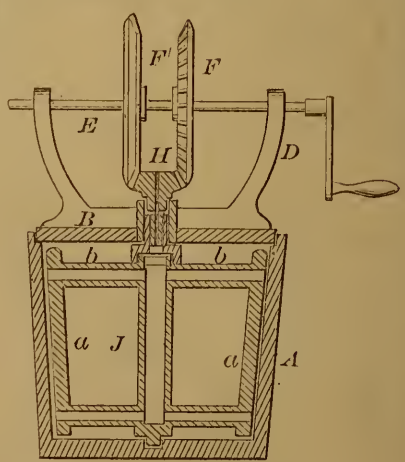


84859—J. C. Clark—*Fire Shield.*

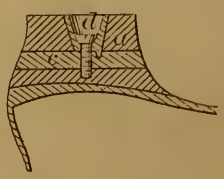


84857—R. Carkhuff—*Harvester Rake.*

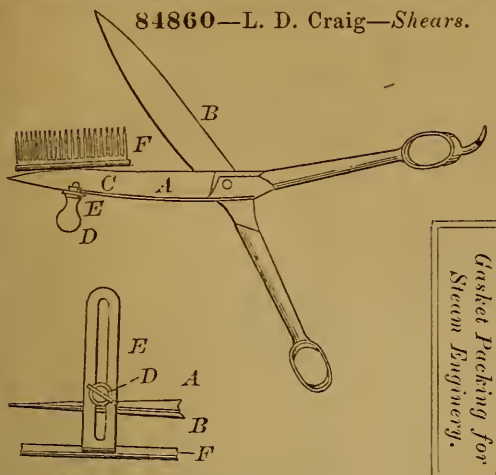




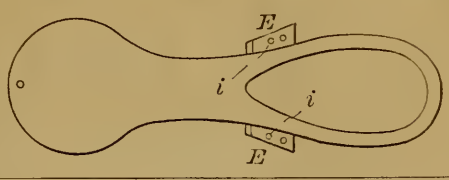
84861—A. O. Crane—*Boot and Shoe Heel.*



84860—L. D. Craig—*Shears.*



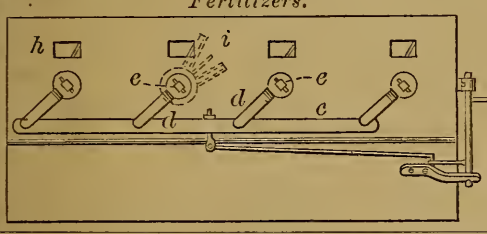
84862—J. Darden—*Boot Jack.*



84864—B. Densmore—*Gasket Packing for Steam Engines.*

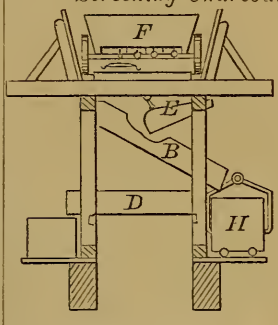
84865—C. H. Douglas—*Game of Colors.*

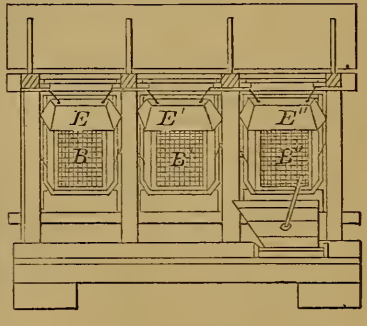
84870—J. F. Fisher—*For Distributing Fertilizers.*



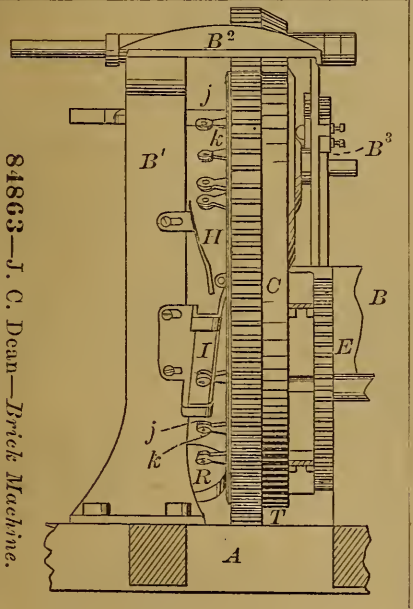
84868—W. A. Fenn—*Attaching C Knobs.*

84866—J. S. Evans—*Screening Charcoal.*

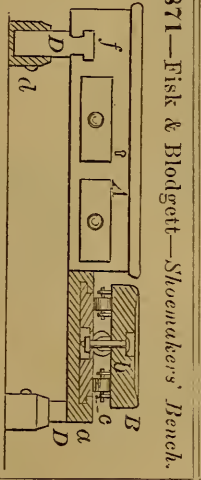




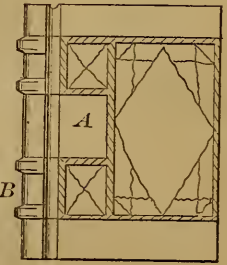
84863—J. C. Dean—*Brick Machine.*

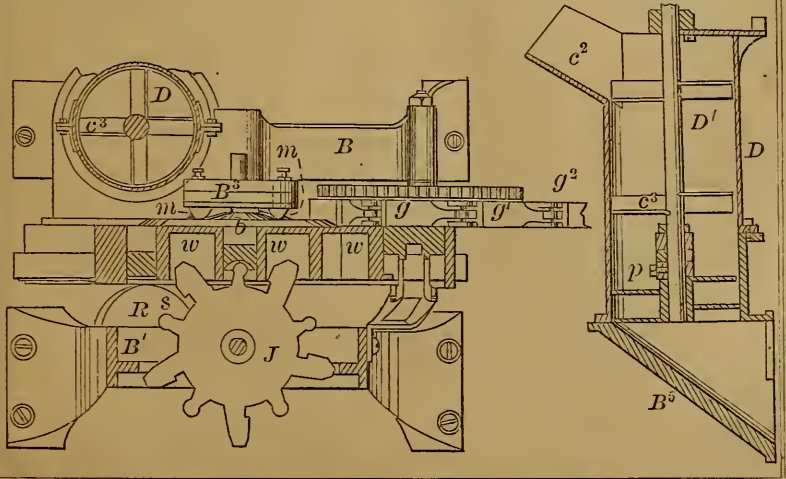


84871—Fisk & Blodgett—*Shoemakers' Bench.*

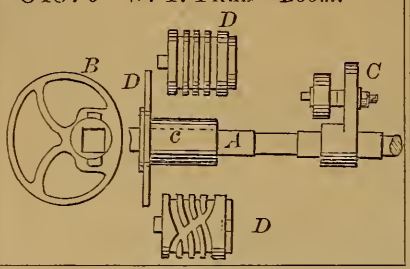


84869—H. Fischer—*Blank Book.*



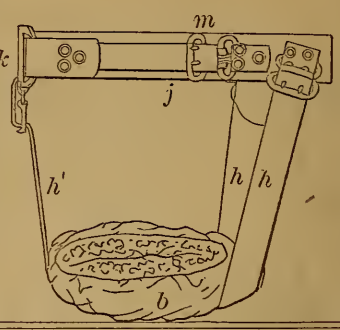


84872—W. T. Flinn—*Loom.*

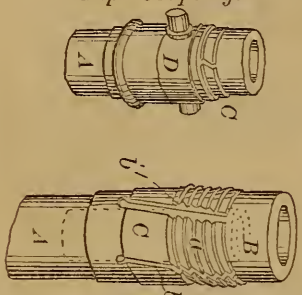


84873—C. S. H. Foster—*Belaying Cleat.*

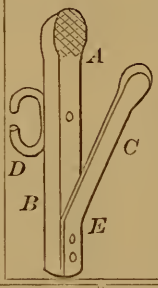
84874—T. A. Gamage—*Menstrual Receiver.*



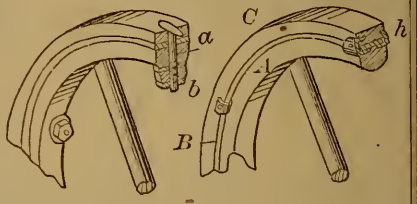
84875—H. P. Garabedian—*Pipe Coupling.*



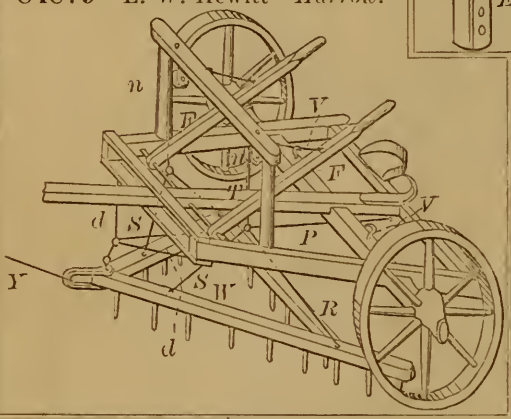
84876—J. L. Gorton—*Corn Husker.*

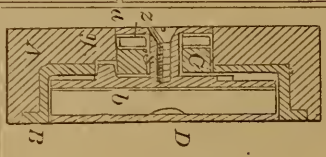


84878—J. A. Greene—*Fastening Rubber Tires on Wheels.*

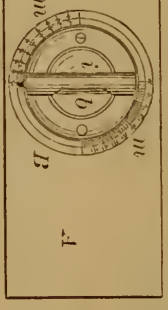


84879—E. W. Hewitt—*Harrow.*

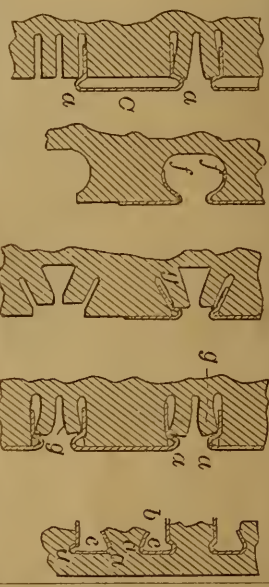




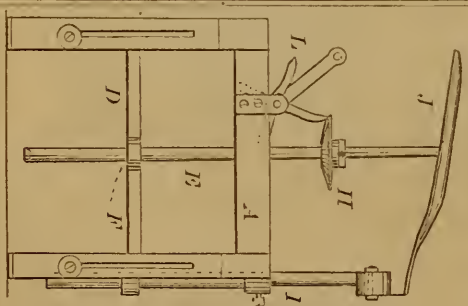
84880—C. F. Hill—*Spirit Level.*



84881—I. V. Holmes—*Metallic Lath.*



84883—M. Keefer—*Rock Drill.*



84885—Leach & Hutchins—*Fishing Tackle.*

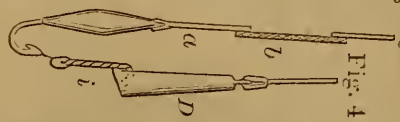
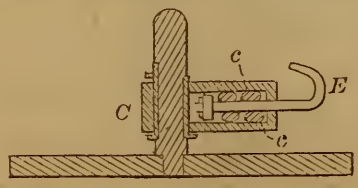


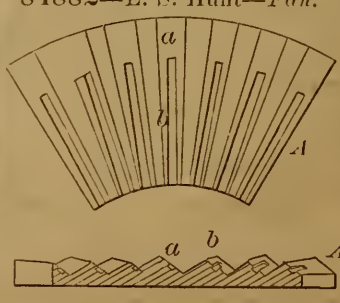
Fig. 1

Fig. 4

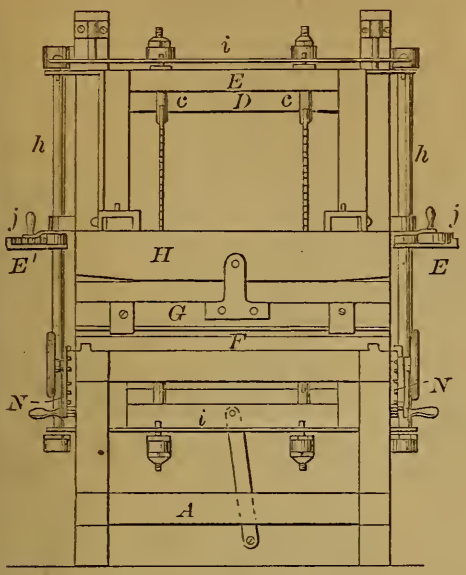
84886—Leach & Hutchins—*Revolving Pile Hook.*

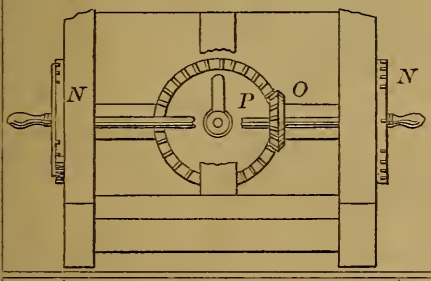


84882—E. S. Hunt—*Fan.*

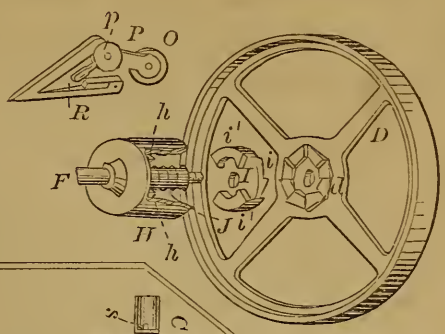


84884—C. F. Kuhnle—*Docetailing Machine.*

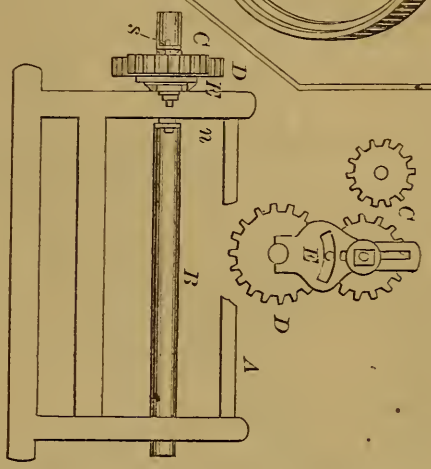




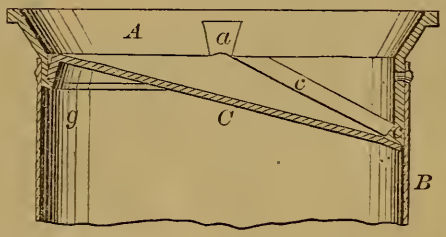
84887—Lighter & Curtis—*Harvester.*



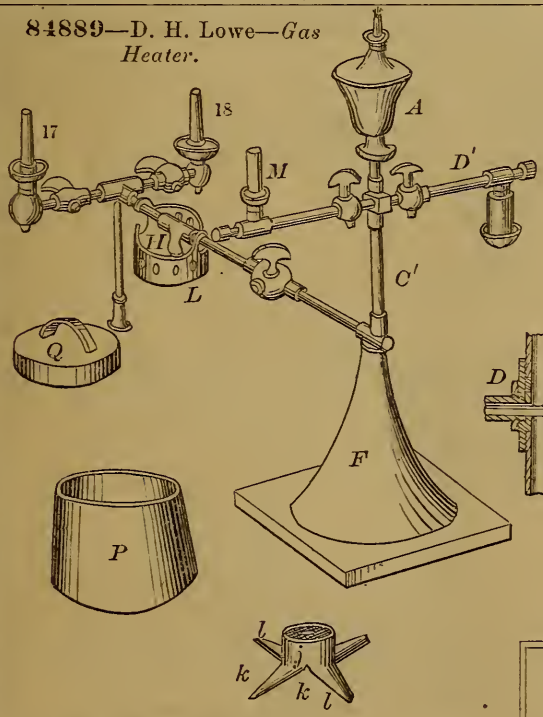
84895—D. E. Mc Sherry—*Wheat Drill.*

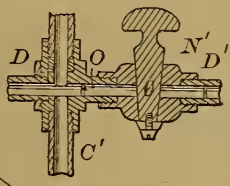


84890—E. Macy—*Base Burning Stove.*

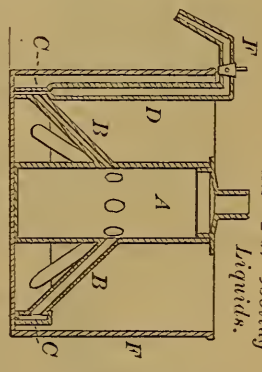


84889—D. H. Lowe—*Gas Heater.*

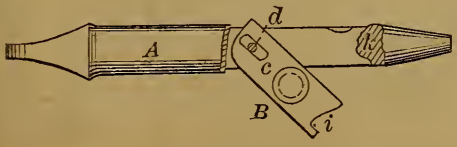




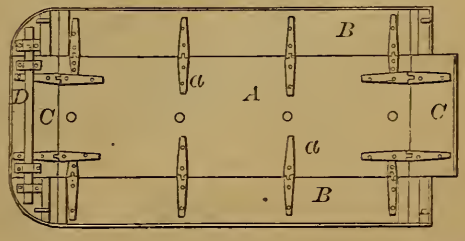
84888—J. Link—*For Cooling Liquids.*

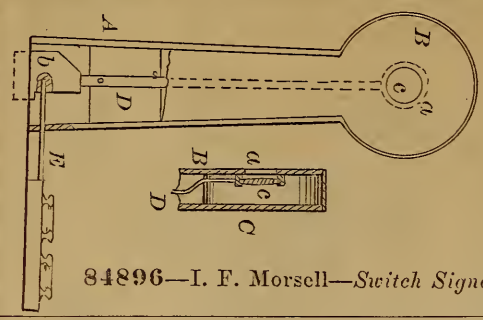


84891—Mann & Terry—*Seal Bolt for Railway Cars.*



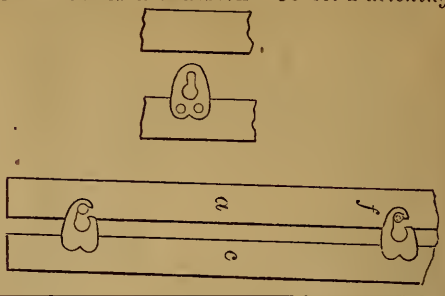
84892—T. M. Marcy—*Wagon Box.*



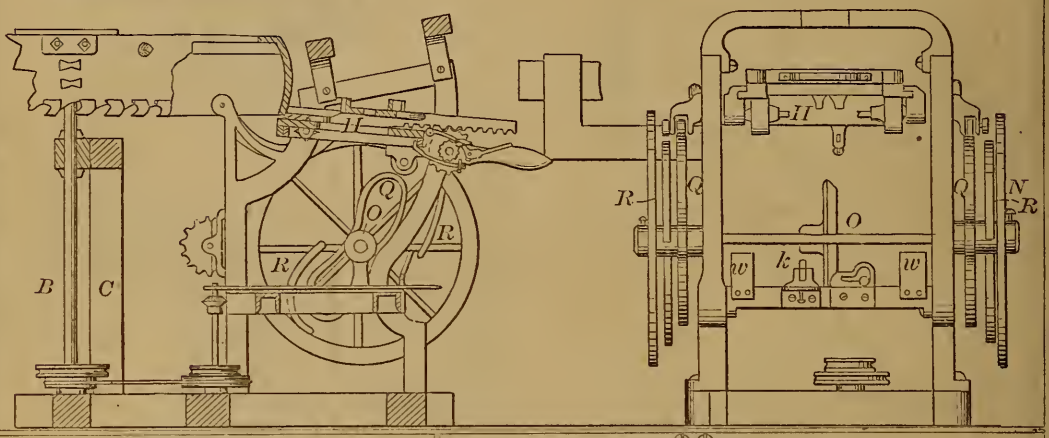


84896—I. F. Morsell—*Switch Signal.*

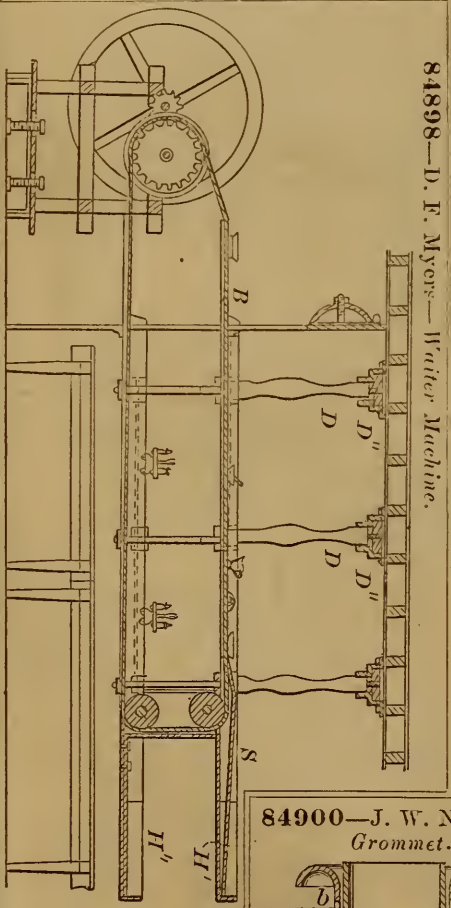
84899—Niles & Marston—*Corset Fastening.*



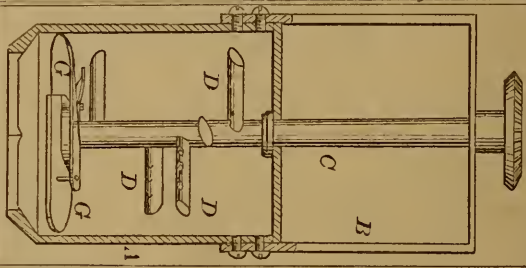
84897—C. Murdock—*Stave Machine.*



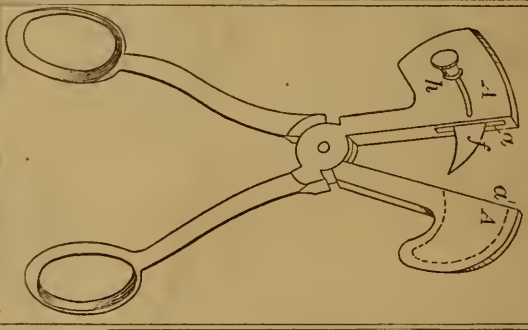
84898—D. F. Myers—*Waiter Machine.*



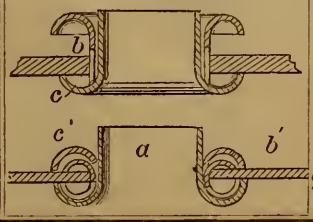
84901—J. W. Peace—*Brick Machine.*



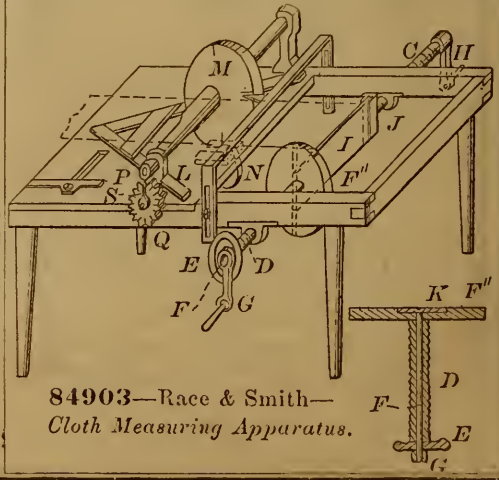
84902—W. S. Porter—*Button Hole Cutter.*



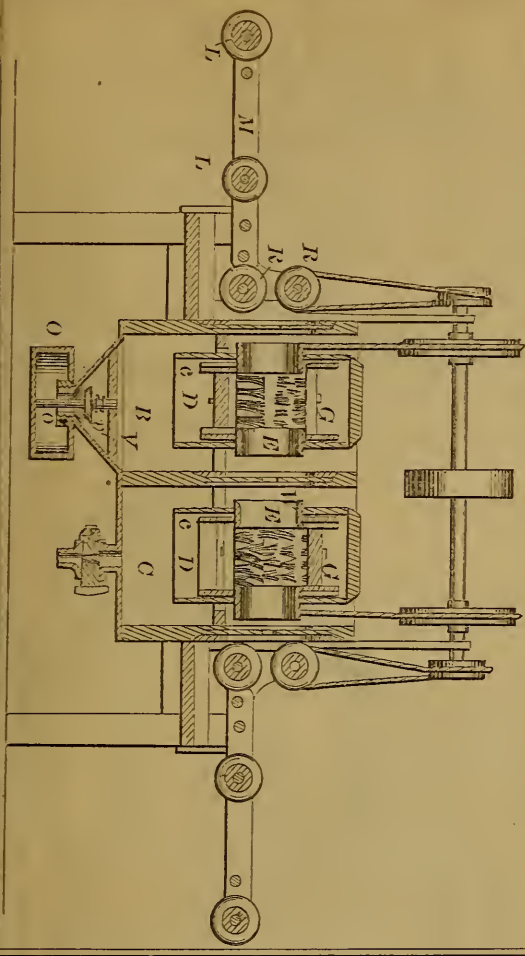
84900—J. W. Norcross—*Grommet.*



84903—Race & Smith—*Cloth Measuring Apparatus.*

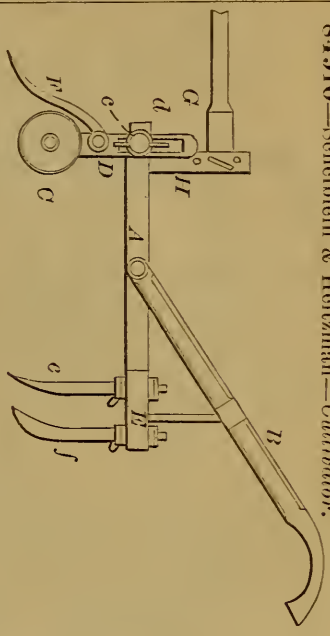


84904—Reel & Carrier—*For Washing Printers' Ink Rollers.*

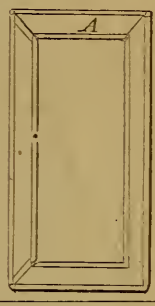


84905—H. A. Reid—*For Shearing Sheep.*

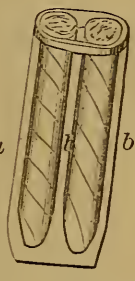
84910—Scheiblein & Heitzman—*Cultivator.*



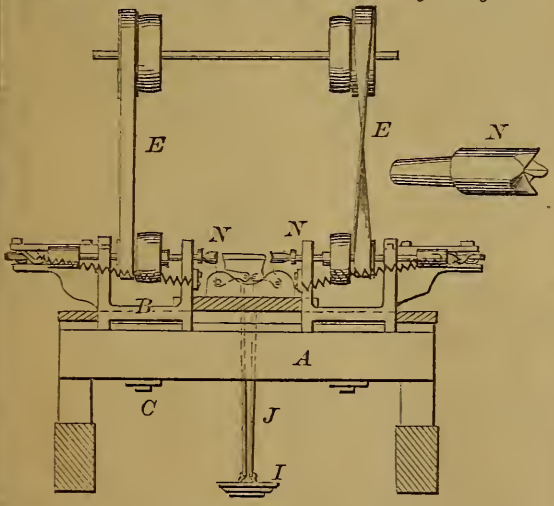
84908—S. W. Rogers—*Baking Pan.*



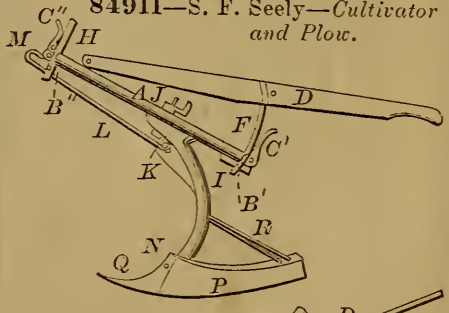
84906—S. N. Risley—*Cigar Case.*



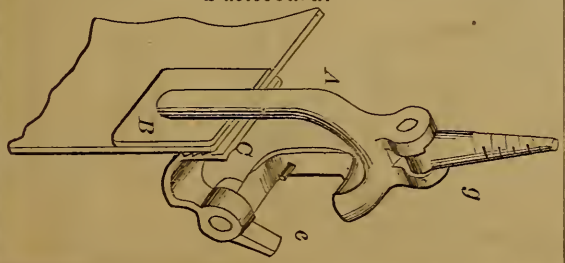
84907—H. M. Ritter—*For Riveting Hinges.*

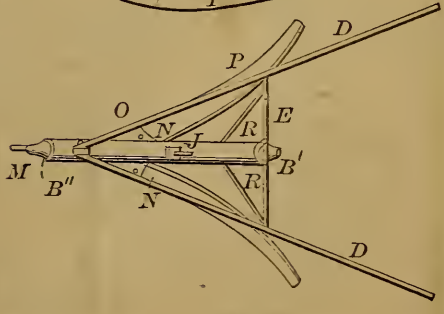


84911—S. F. Seely—*Cultivator and Plow.*

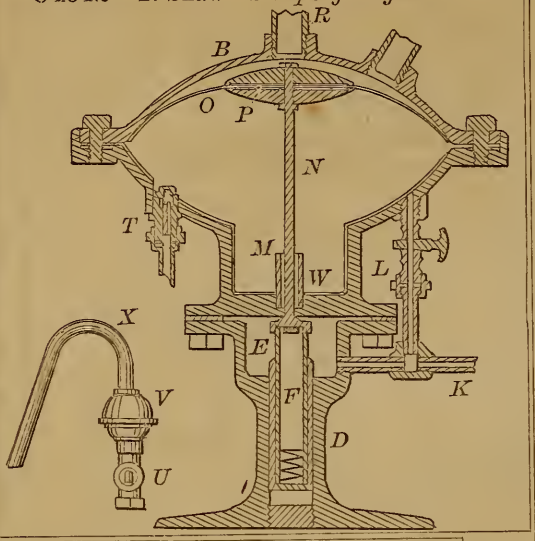


84909—E. H. Sampson—*Clamp for Suspending Pasteboard.*

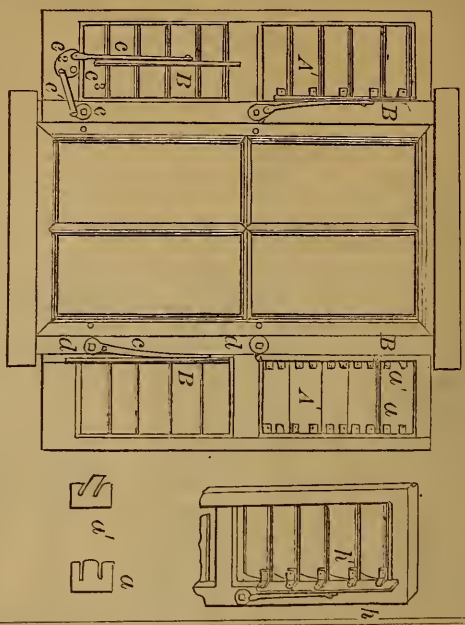




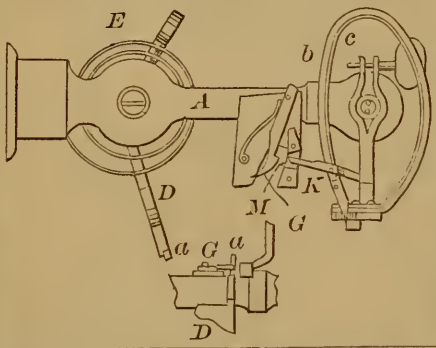
84912—T. Shaw—*Pumping Engine.*



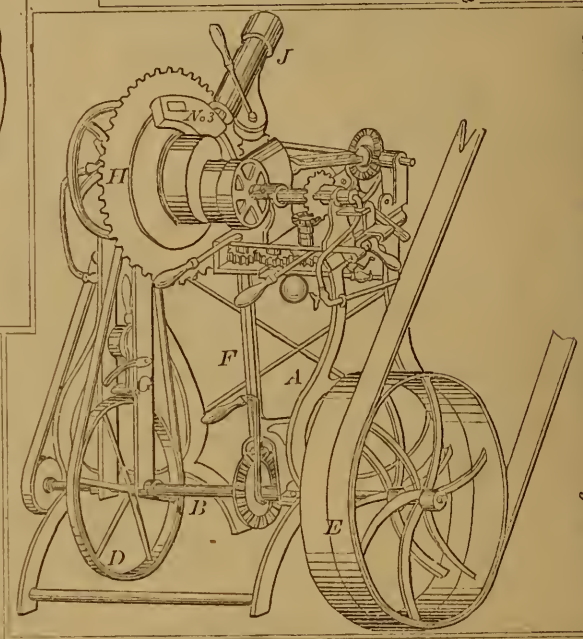
84913—S. M. Sherman—*Window Shutter.*



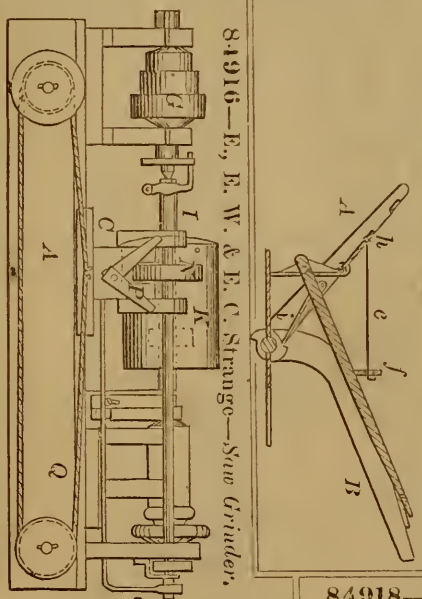
84914—G. E. Smith—*Gas Burner.*



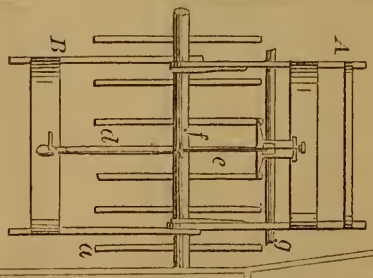
84915—Stout & Richardson—*Hat Ironing Machine.*



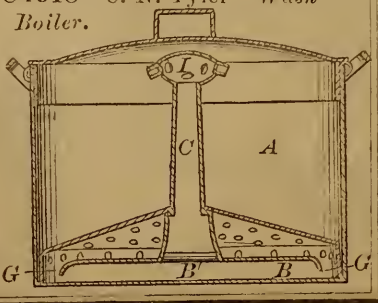
84916—E. E. W. & E. C. Strange—*Saw Grinder.*



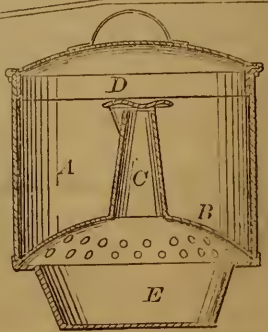
84917—E. J. Toof—*Horse Rake.*

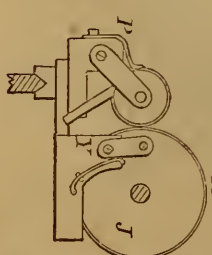


84918—C. N. Tyler—*Wash Boiler.*

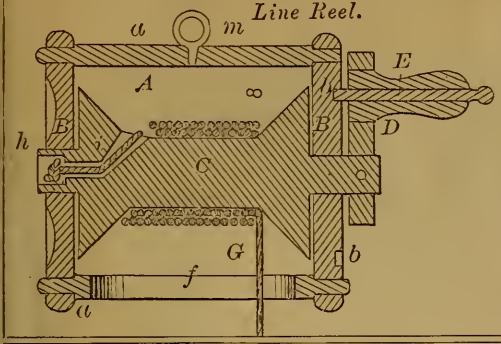


84923—J. B. Waring—*Wash Boiler.*

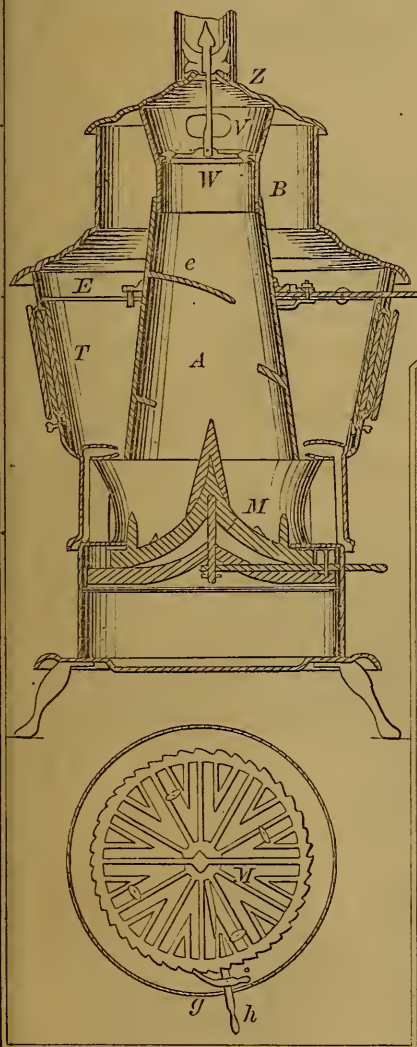




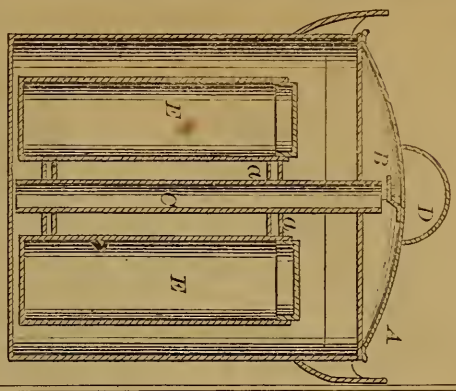
84919—Valentine & Stevens—*Clothes Line Reel.*



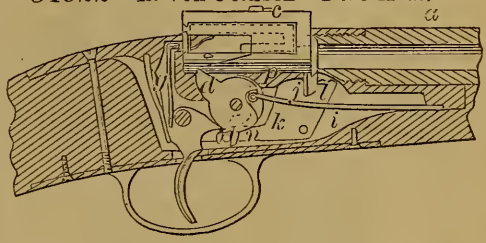
84920—H. B. Van Benthuysen—*Stove.*



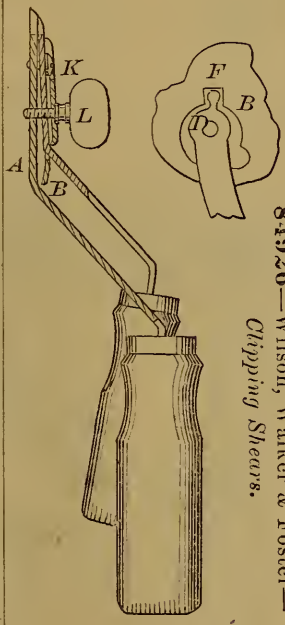
84921—H. M. Viets—*Milk Can.*



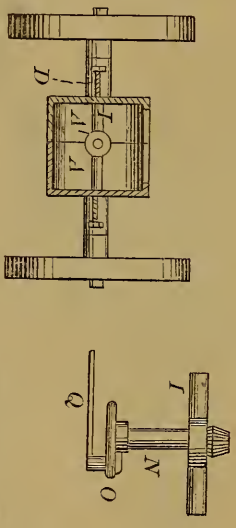
84922—E. von Jeinsen—*Fire Arm.*



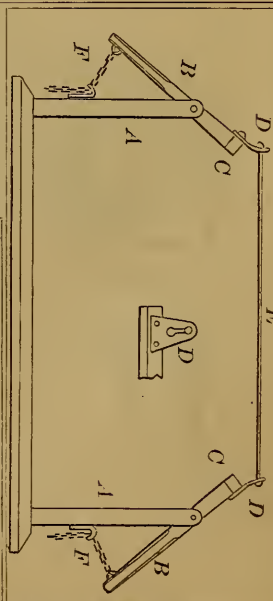
84926—Wilson, Walker & Foster—*Clipping Shears.*



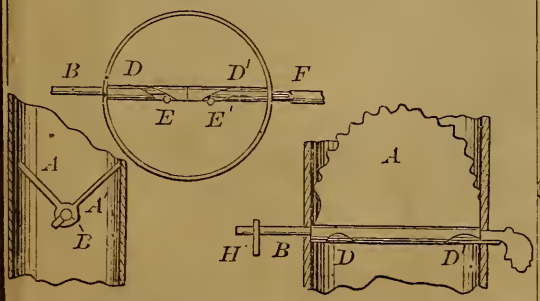
84927—G. W. N. Yost—*Harvester.*



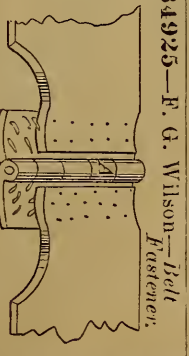
84928 W. H. Acker—*Clothes Dryer.*



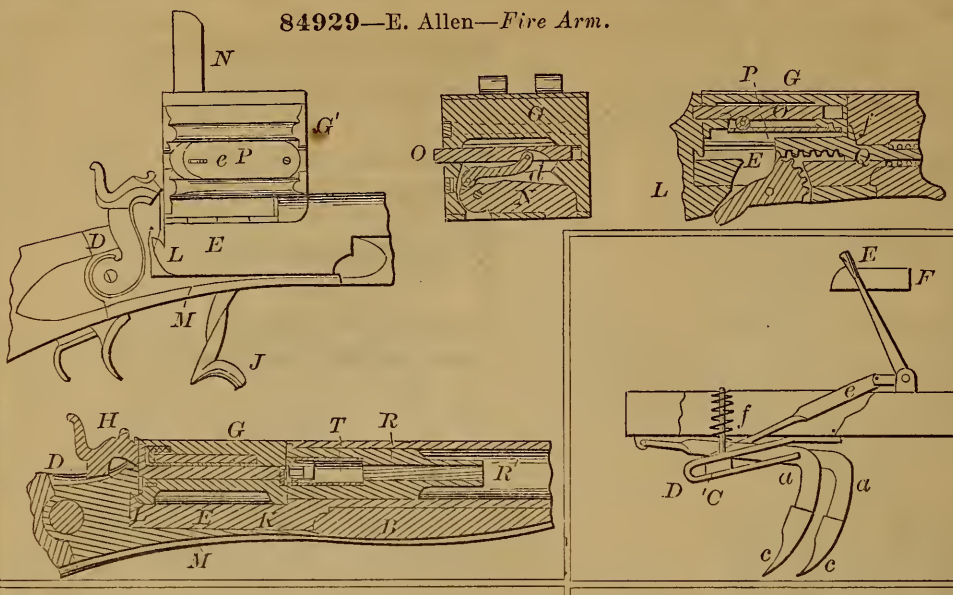
84930—L. O. Allen—*Stove Pipe Damper.*



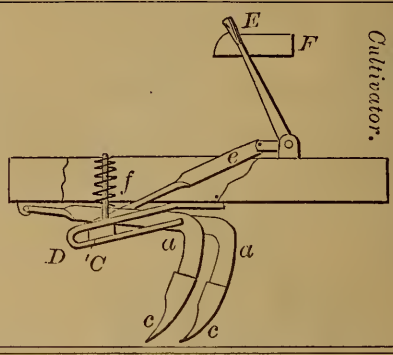
84925—F. G. Wilson—*Belt Fastener.*



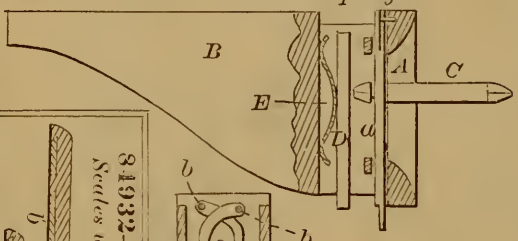
84929—E. Allen—*Fire Arm.*



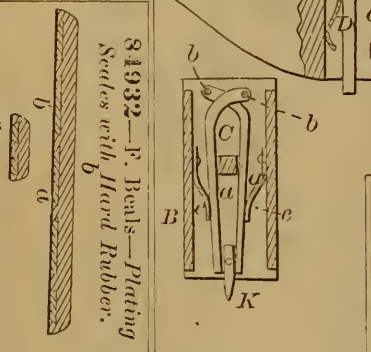
84935—J. H. Brinton—*Cultivator.*



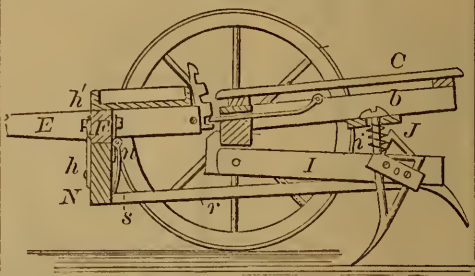
84933—W. G. Bell—*Car Coupling.*



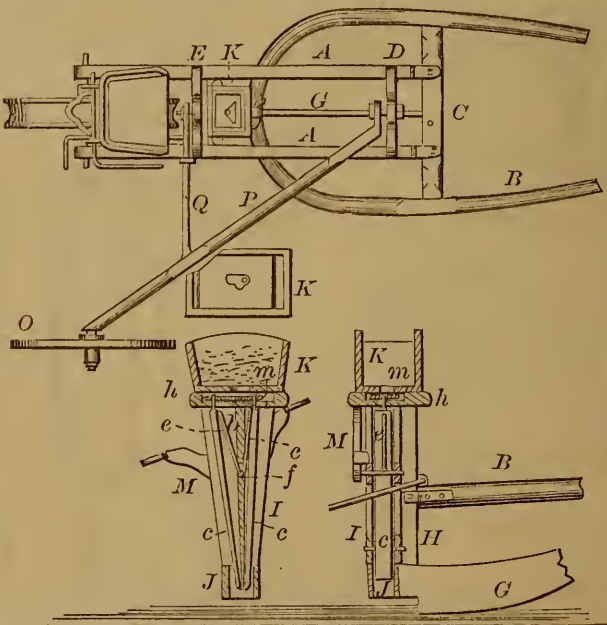
84932—F. Beals—*Plating Scales with Hard Rubber.*



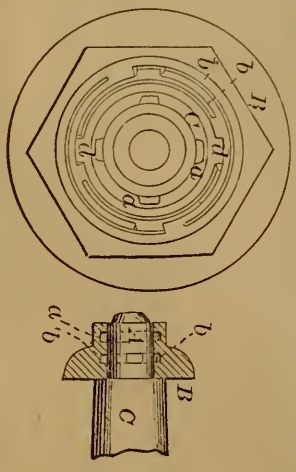
84931—C. Alvord—*Cultivator.*



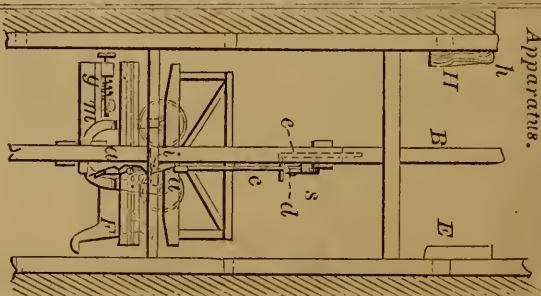
84936—J. D. Chambers—*Corn Planter.*



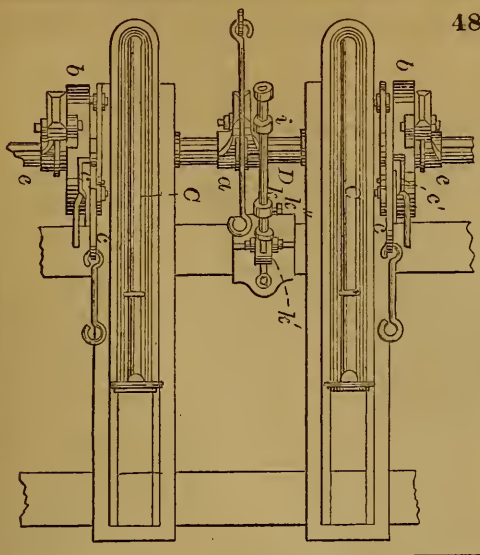
84940—E. Finn—*Axle.*

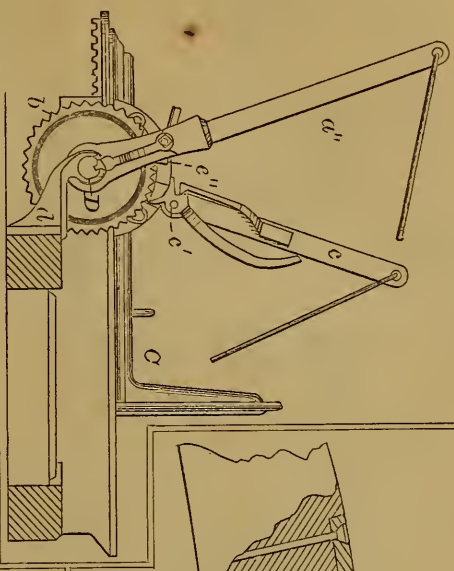


84939—W. B. Culver—*Hoisting and Dumping Apparatus.*

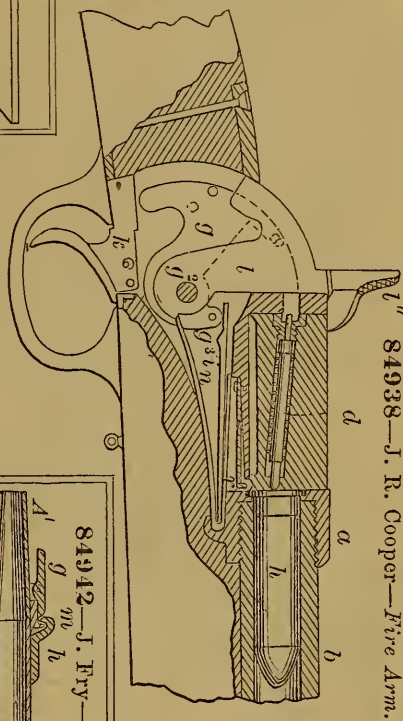


48937—J. F. Cook—*Head Block.*

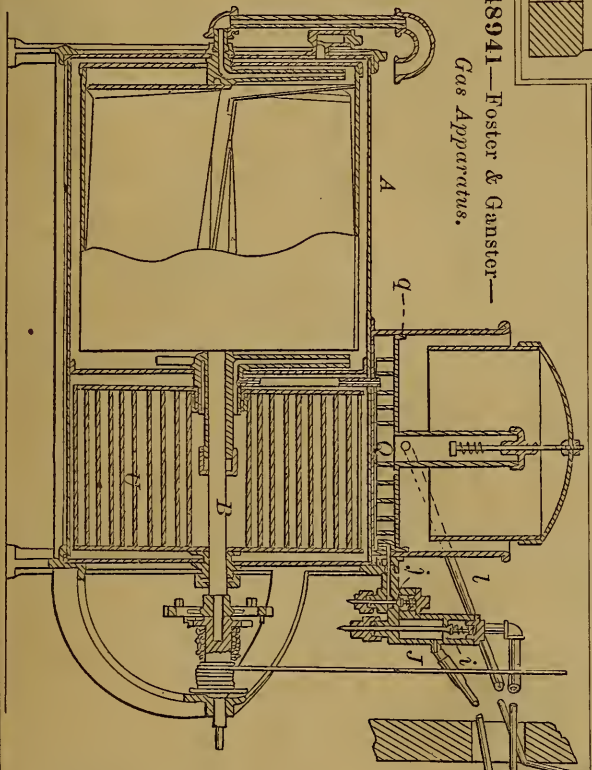




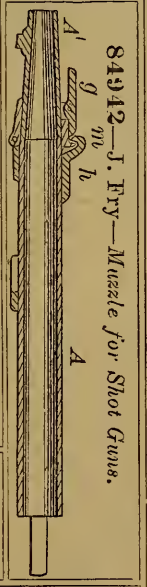
48938—J. R. Cooper—*Fire Arm.*

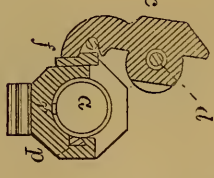


48941—Foster & Ganster—*Gas Apparatus.*

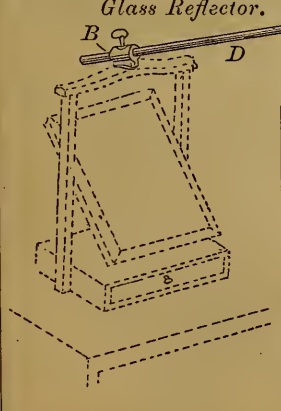


84942—J. Fry—*Muzzle for Shot Guns.*



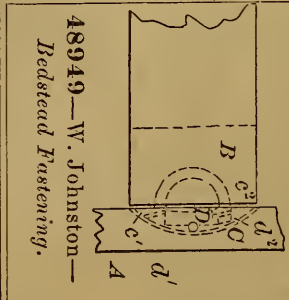


48943—C. Furber—*Dressing Glass Reflector.*

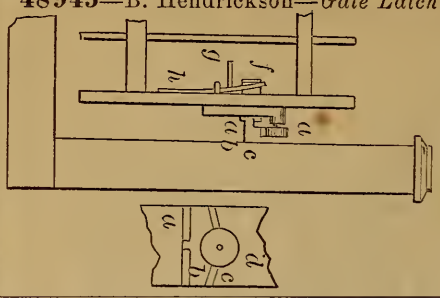


84944—W. H. Gray—*Looking Glass Support.*

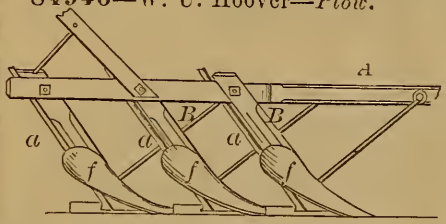
48949—W. Johnston—*Bedstead Fastening.*



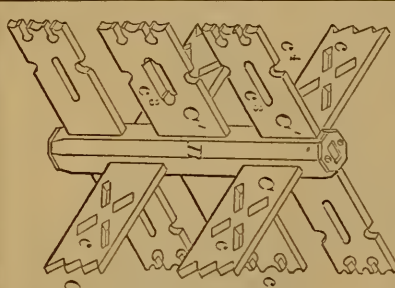
48945—B. Hendrickson—*Gate Latch.*



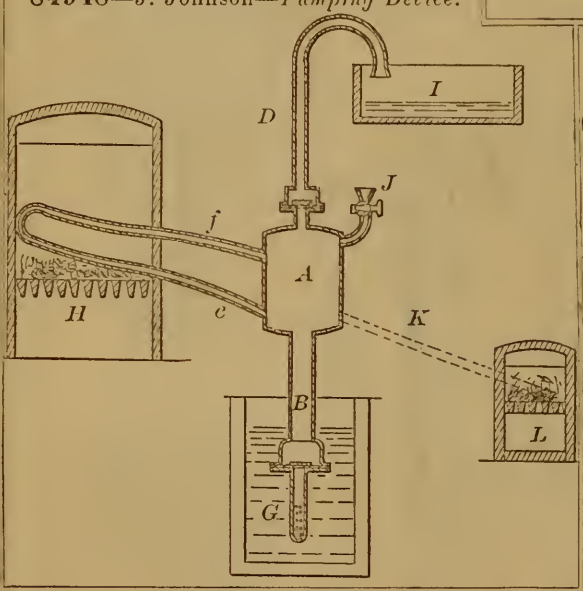
48946—W. U. Hoover—*Plow.*



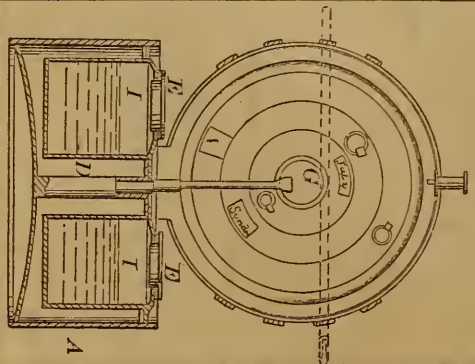
84953—Lord & Thomson—*Churn Dasher.*



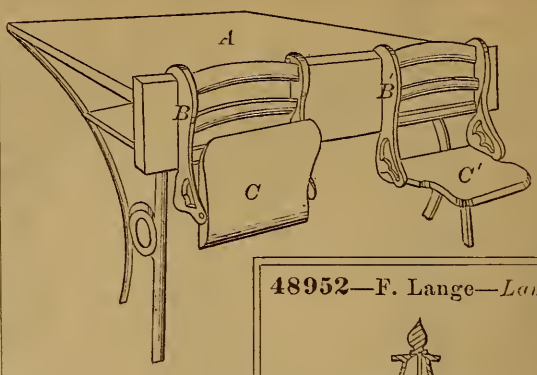
84948—J. Johnson—*Pumping Device.*



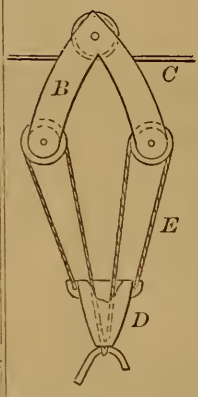
84950—J. M. Kennedy—*Inkstand.*



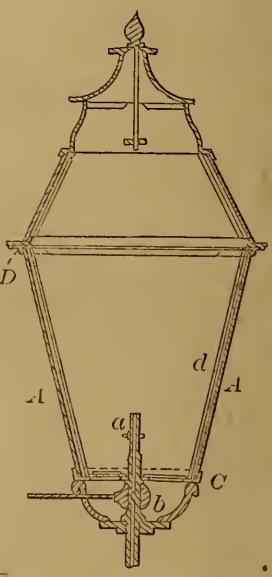
48947—A. Hutchinson—*School Desk and Seat.*



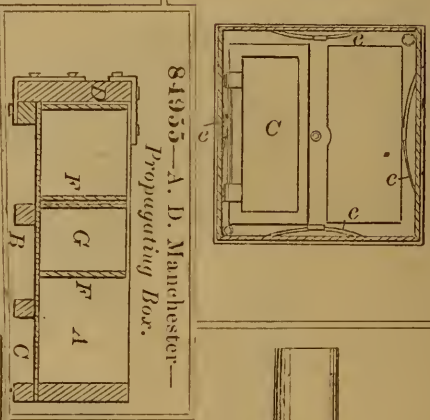
84951—J. H. Kuttner—*Suspender for Scissors.*



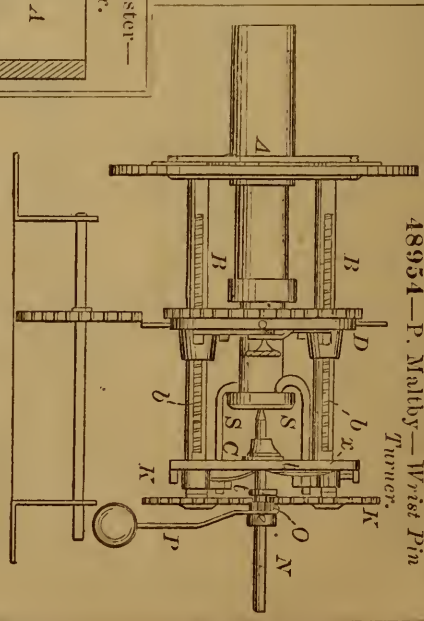
48952—F. Lange—*Lamp.*



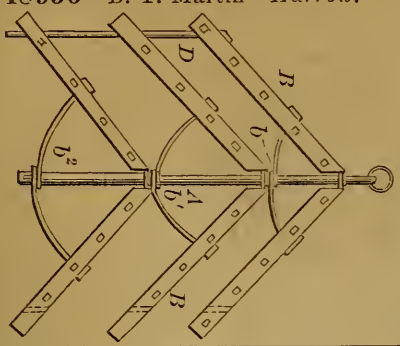
84955—A. D. Manchester—*Propagating Box.*



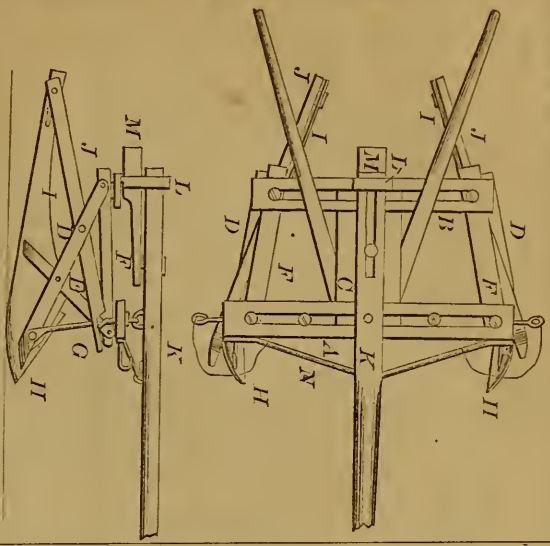
48954—P. Maltby—*Wrist Pin Turner.*



48956—B. T. Martin—*Harrow.*

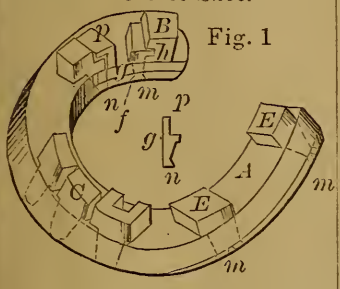


48957—T. J. Mason—*Plowing Hoe.*



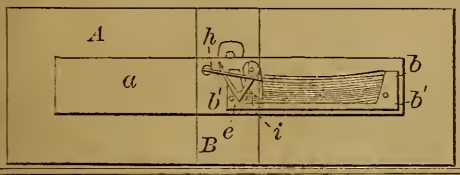
48958—J. J. Mervesp—*Horse Shoe.*

Fig. 1

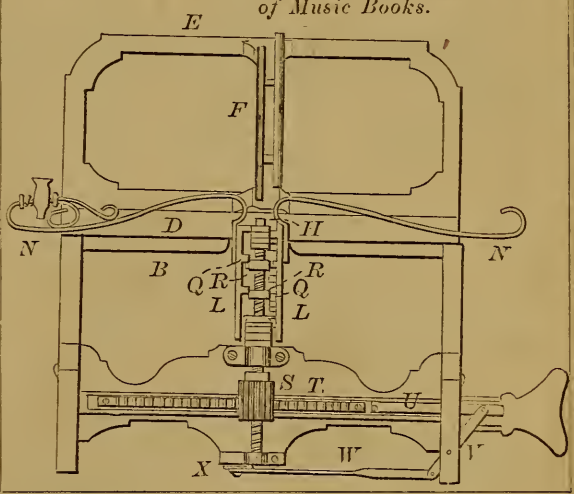


84961—G. Mooney—*Gas Socket.*

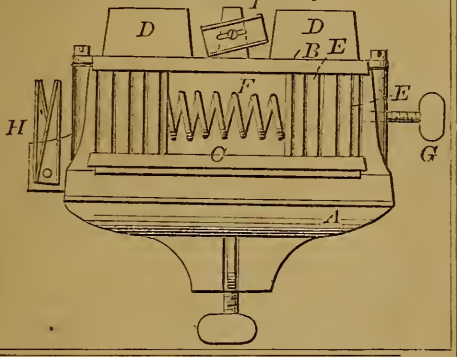
84959—N. Meyers—*Sewing Machine.*



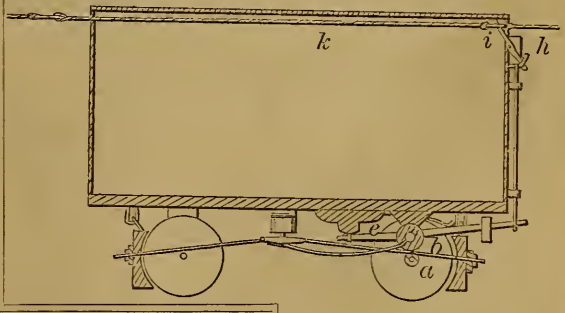
48962—A. K. Noyes—*For Turning the Leaves of Music Books.*



48960—W. Miller—*Knife Cleaner.*

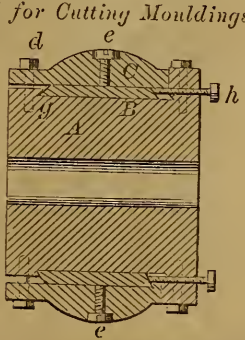


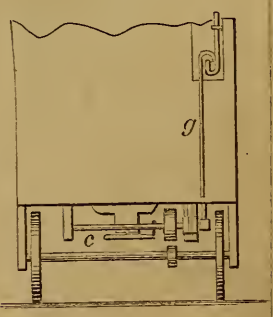
84963—D. J. Parmele—*Railway Car Brake.*



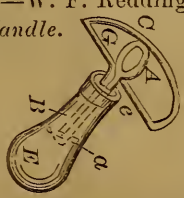
84965—F. Pinckard—*To keep the Mouth Closed during Sleep.*

48964—D. W. Perry—*Tool for Cutting Mouldings.*

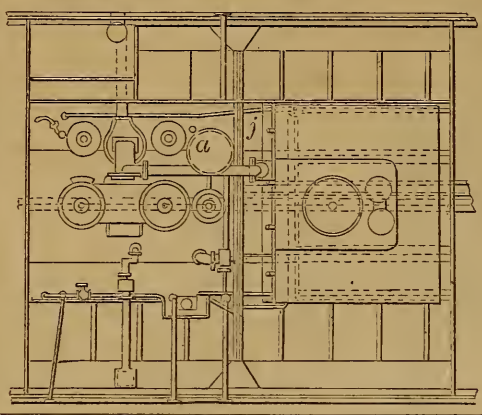


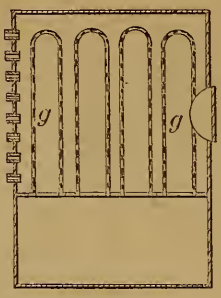


48966—W. F. Redding—*Stove Door Handle.*



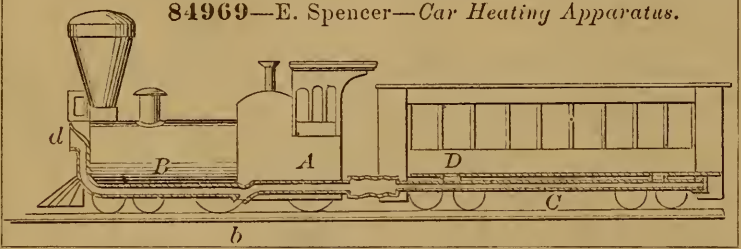
84967—P. Salmon—*Manufacture of Gas.*



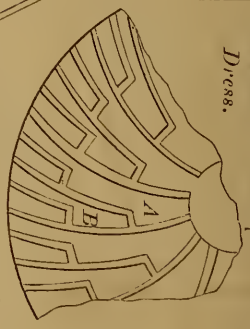


48968—C. G. Sargent—*Belt Hook.*

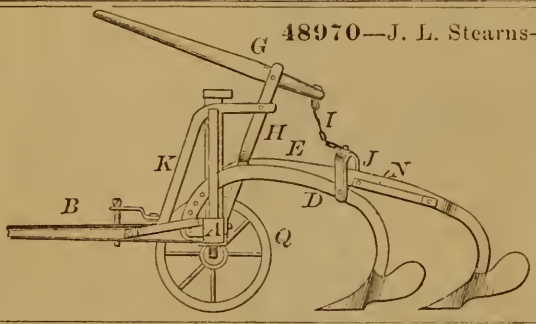
84969—E. Spencer—*Car Heating Apparatus.*

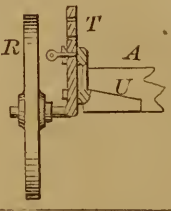


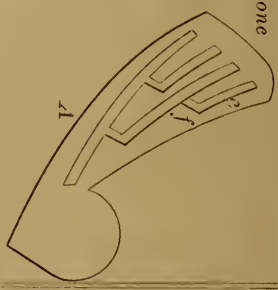
84971—B. C. Stephens—*Millstone Dress.*



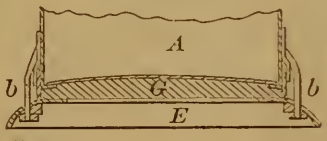
48970—J. L. Stearns—*Plow.*





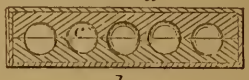


84973—L. A. Sunderland—*Milk Can.*

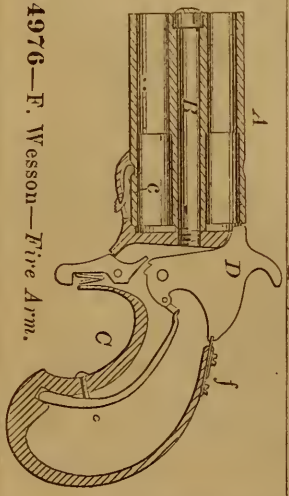


48974—D. H. Tierney—*Necktie Fastening.*

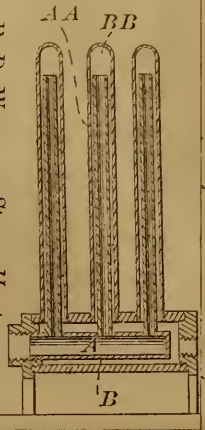
48972—B. F. Stephens—*Pill Box.*



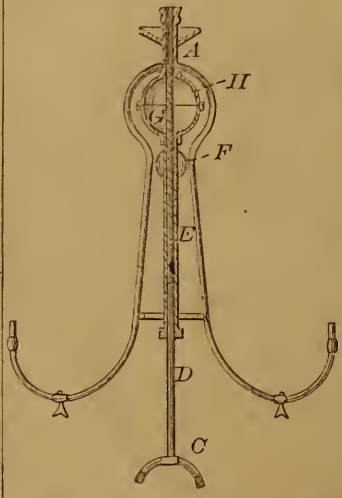
84976—F. Wesson—*Fire Arm.*

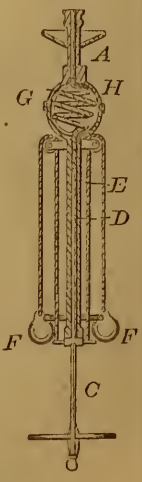


84977—P. D. Wesson—*Steam Heater.*



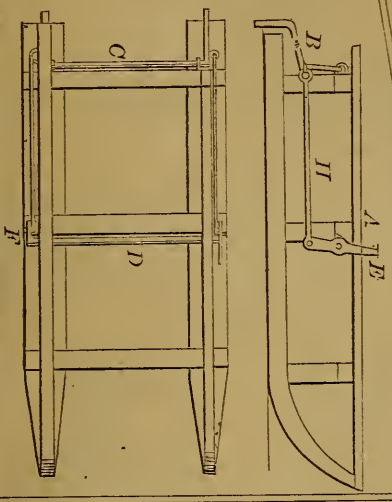
84975—J. F. Tavis—*Chandelier.*



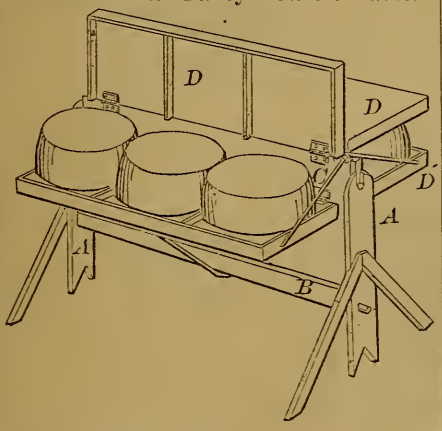


84978—S. Wilks—*Water Back for Ranges.*

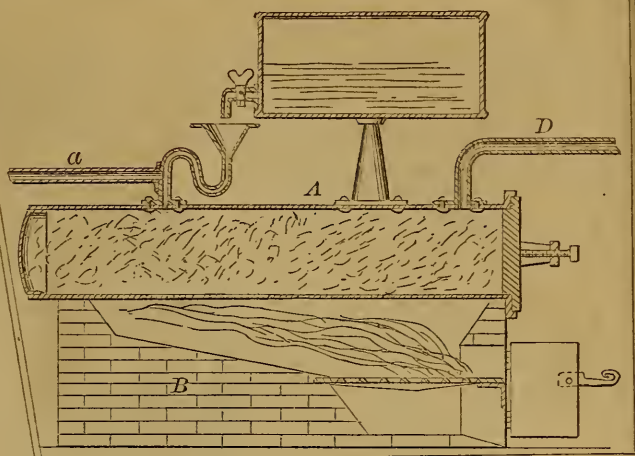
84979—J. Willis—*Sled Brake.*



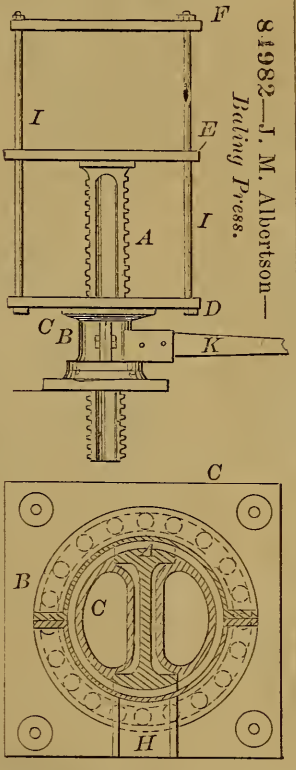
84980—E. L. Yancy—*Cheese Table.*



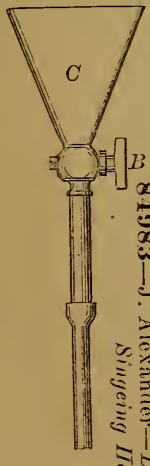
84981—J. Absterdam—*Manufacture of Illuminating Gas.*



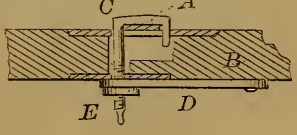
84982—J. M. Albertson—*Baling Press.*



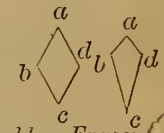
84983—J. Alexander—*Device for Stinging Horses.*



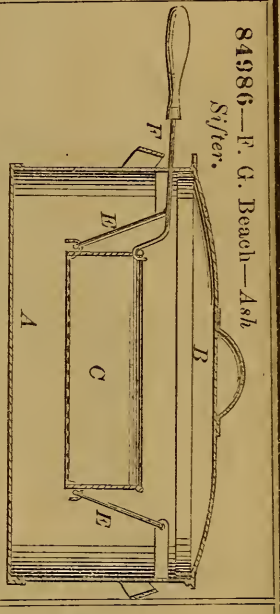
84984—J. Auser—*Door and Shutter Fastener.*



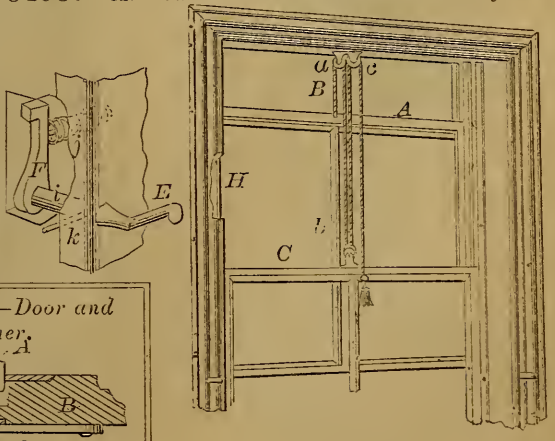
84985—W. N. Bartholomew—*Rubber Eraser.*



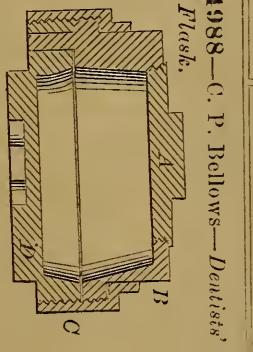
84986—F. G. Beach—*Ash Sifter.*



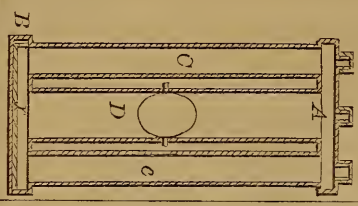
84987—A. Bedford—*Sash Fastener and Adjuster.*



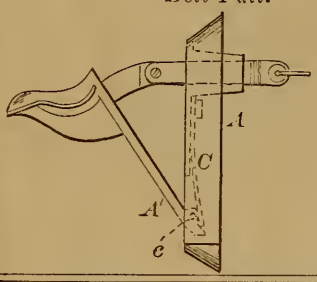
84988—C. P. Bellows—*Dentists' Flask.*



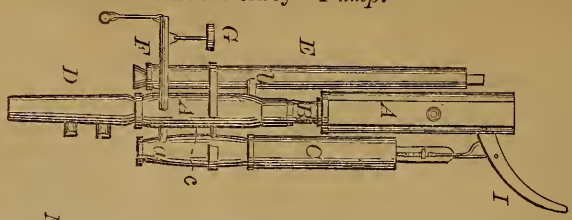
84989—E. S. Blake—*Radiator.*

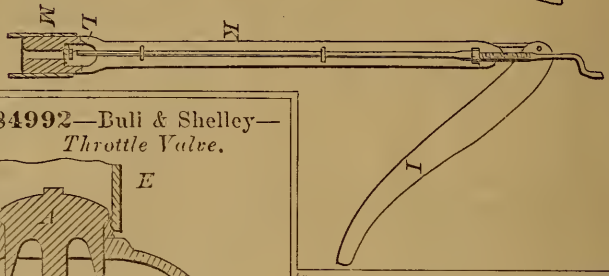


84990—Bonsall & Hillebrand—*Bell Pull.*

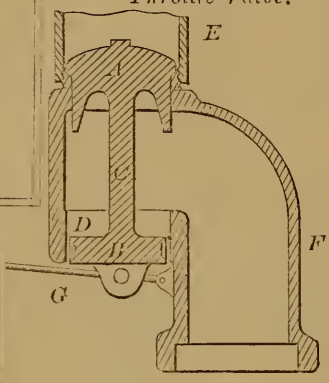


84991—J. F. Brickley—*Pump.*

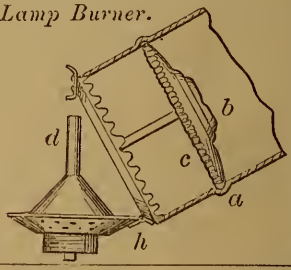




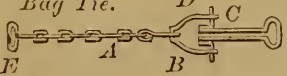
84992—Buli & Shelley—*Throttle Valve.*



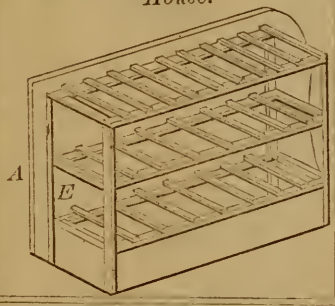
84993—C. W Cahoon—*Lamp Burner.*



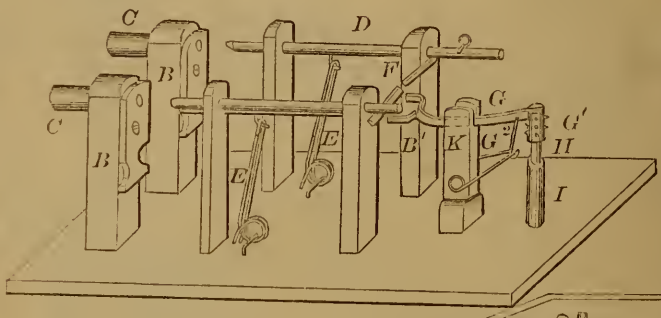
84998—Dick & Preston—*Bag Tie.*



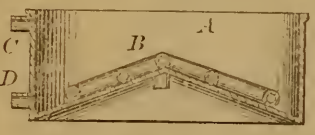
84994—W. Carter—*Bee House.*



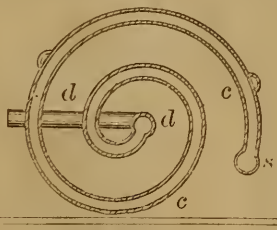
84997—J. Coulson—*Fire Alarm.*

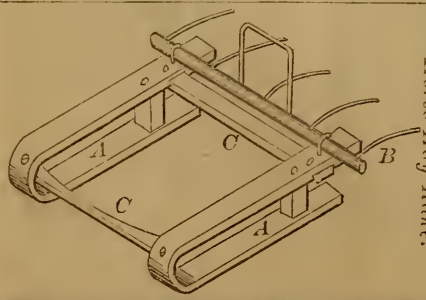


84995—C. Clifford—*Vapor and Steam Condenser.*



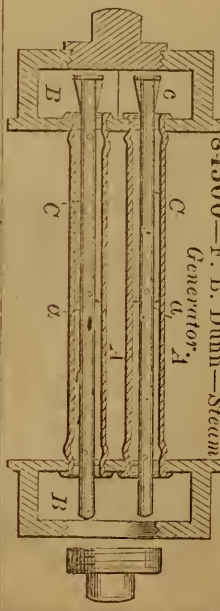
1996—W. A. Colsten—*Liquid Cooler.*



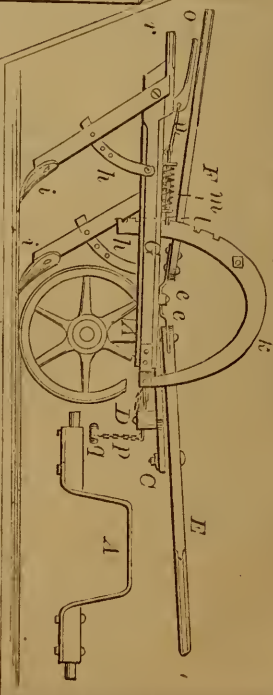


84999—A. T. Dunbar—*Horse Hay Rake.*

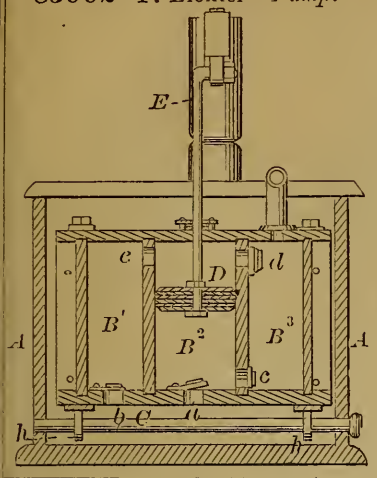
84500—F. B. Dunn—*Steam Generator.*



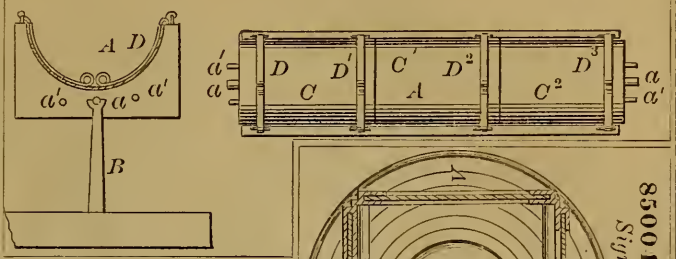
85001—G. M. Dwight—*Cultivator.*



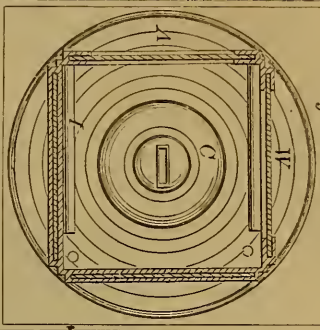
85002—F. Eichler—*Pump.*



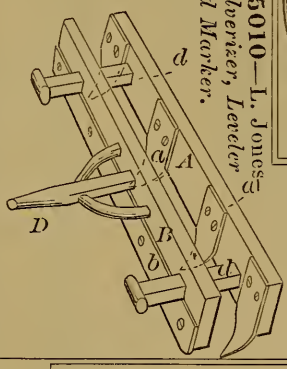
85003—Fath & Frielingsdorf—*Soldering Machine.*



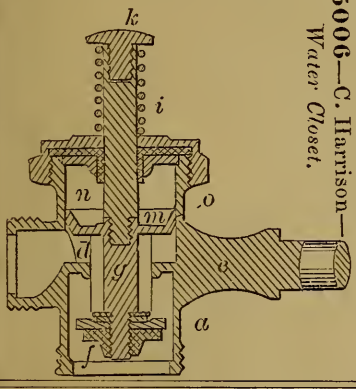
85001—J. Graham—*Signal Lantern.*



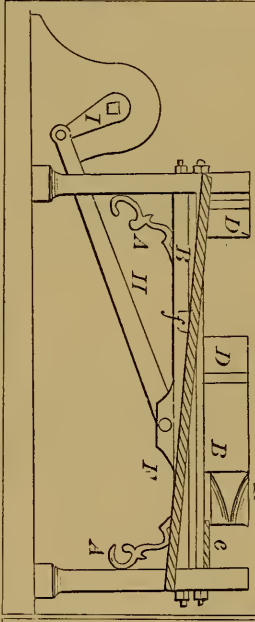
85010—L. Jones—*Pulverizer, Leveler and Marker.*



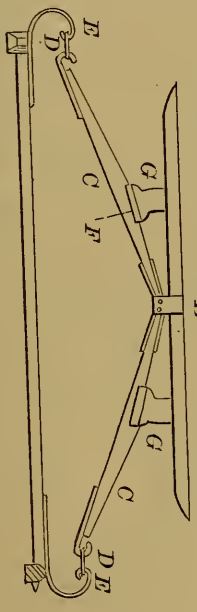
85006—C. Harrison—*Water Closet.*



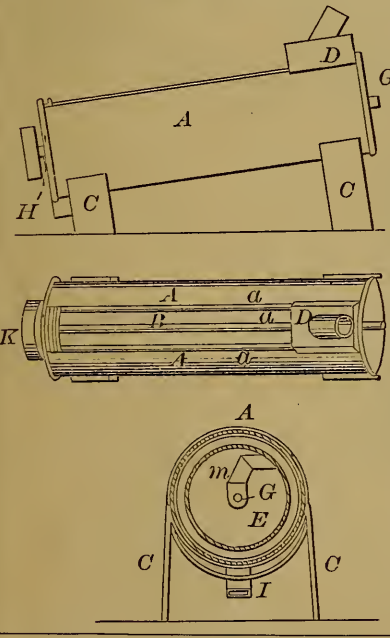
85009—A. W. Jackson—*For Cutting and Splitting Wood.*



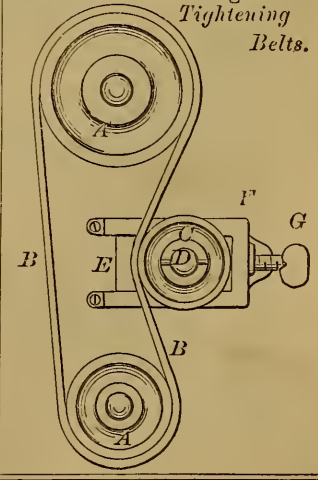
85008—F. A. Huntington—*Carriage Spring.*



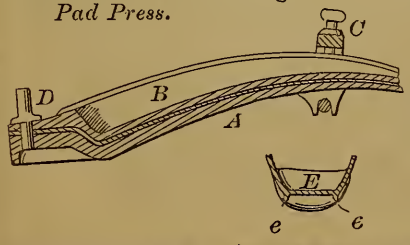
85007—Henley & Reinhart—*Grain Dryer.*



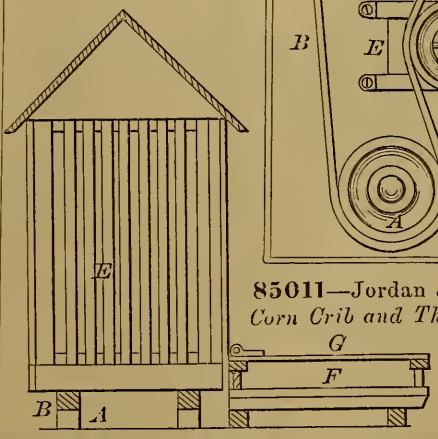
85012—J. M. King—*For Tightening Belts.*



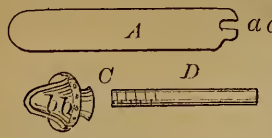
85013—G. W. Lawbaugh—*Harness Pad Press.*



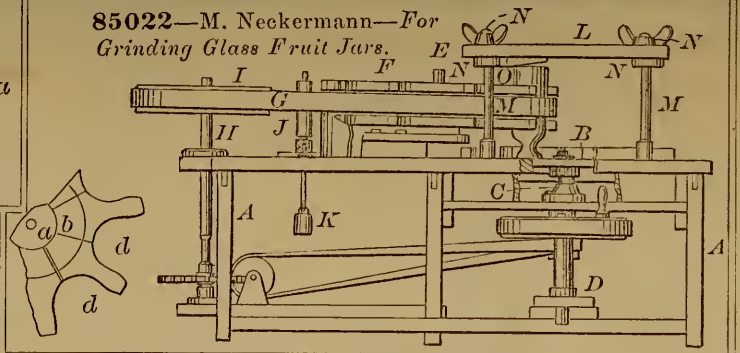
85011—Jordan & Campbell—*Corn Crib and Threshing Floor.*



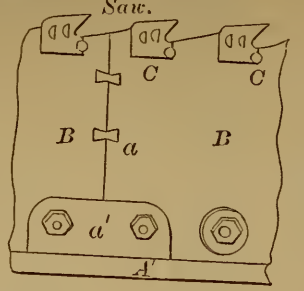
85020—C. A. Moore—*Knife and Fork.*



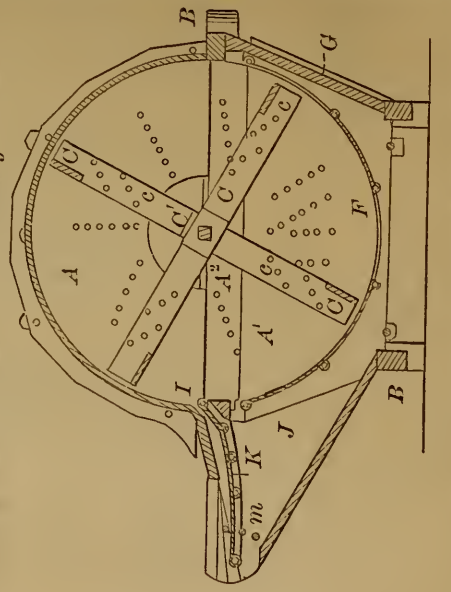
85022—M. Neckermann—*For Grinding Glass Fruit Jars.*



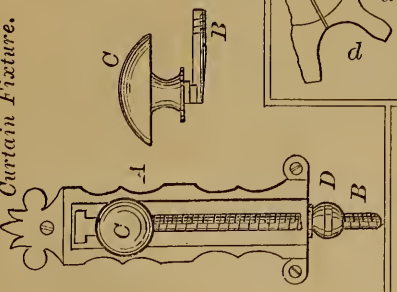
85021—C. Murdock—*Saw.*



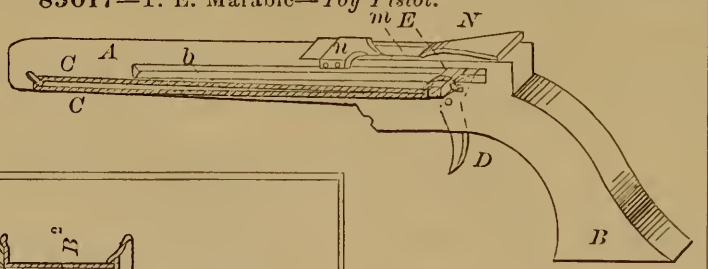
85024—B. J. F. Owen—*For Cleaning Cotton.*

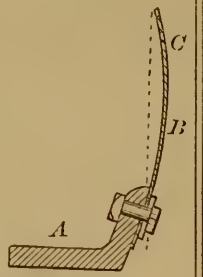


85016—A. Lovie—*Curtain Fixture.*

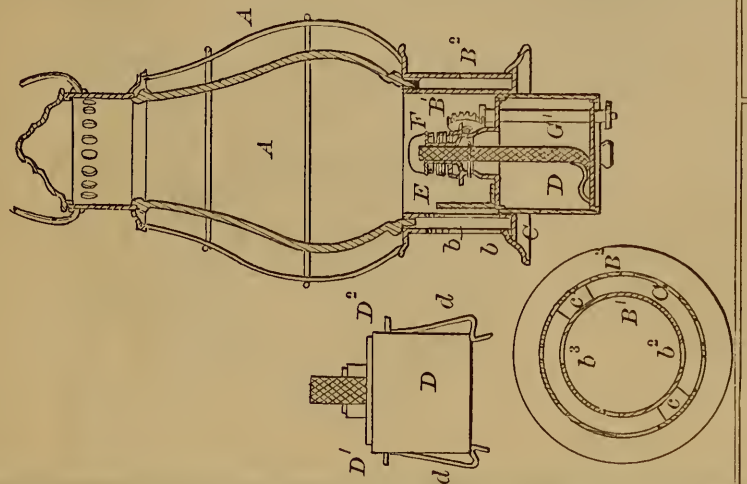


85017—T. E. Marable—*Toy Pistol.*

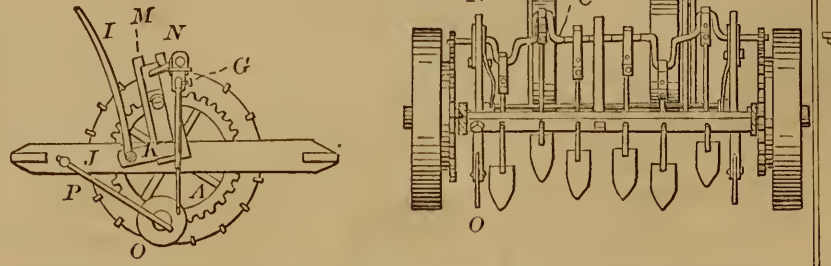




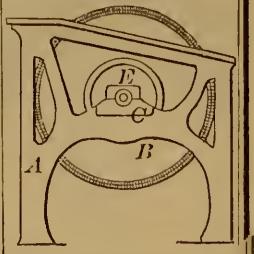
85014—L. W. Leary—*Lantern.*



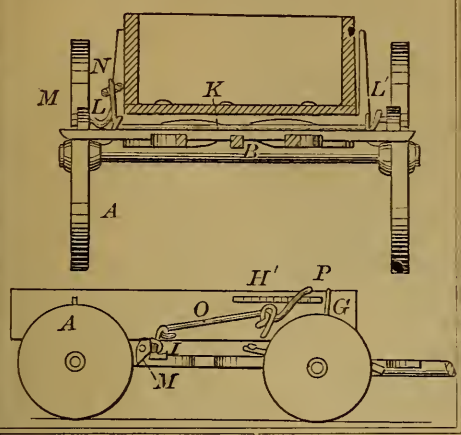
85019—L. Moody—*Spading Machine.*



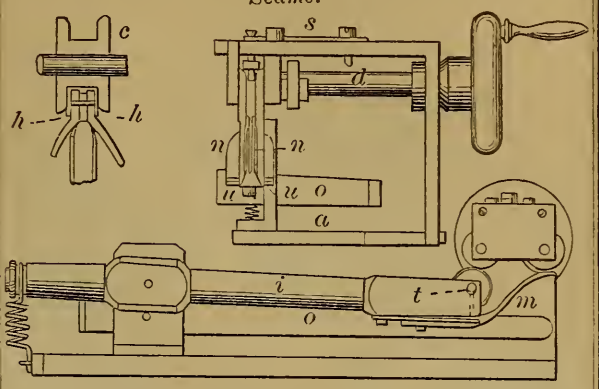
85030—C. Schmitz—*Shaving and Polishing Skins.*



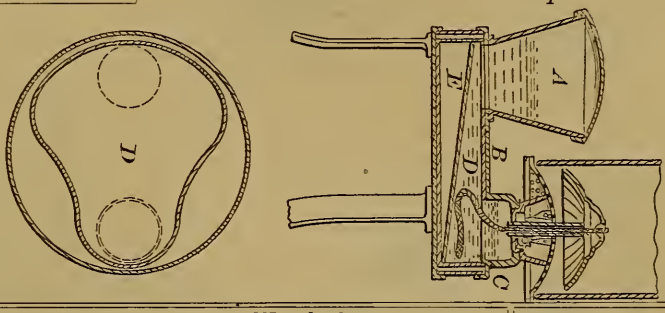
85025—D. J. Owen—*Wagon Brake.*



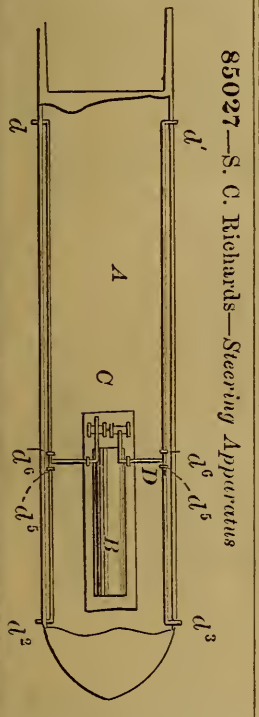
85028—W. H. Rounds—*For Trimming Welted Seams.*



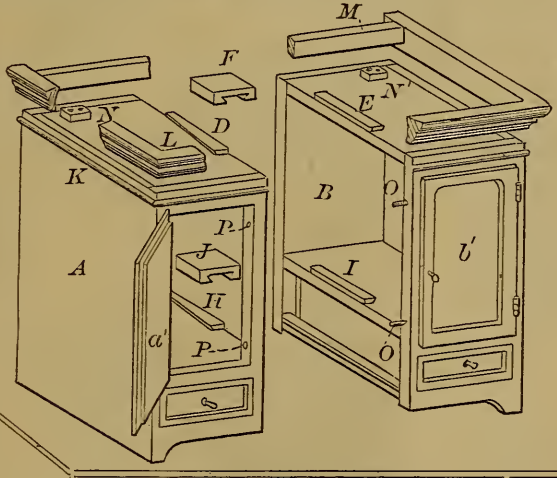
85029—M. Samuels—*Lamp.*



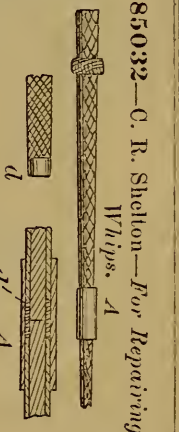
85027—S. C. Richards—*Steering Apparatus*



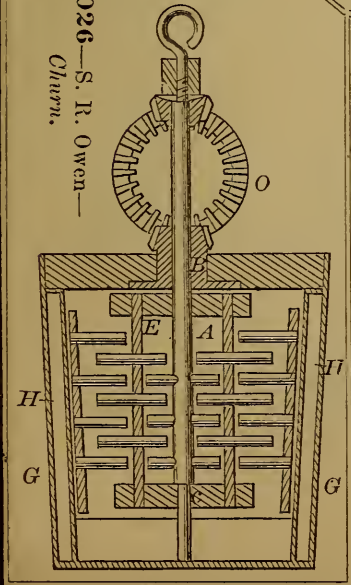
85023—G. Niermann—*Wardrobe.*



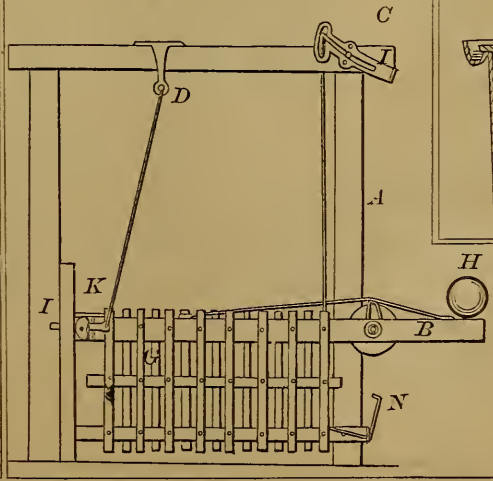
85032—C. R. Shelton—*For Repairing Whips.*



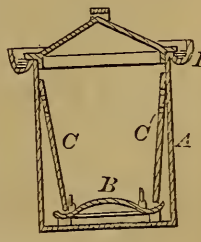
85026—S. R. Owen—*Churn.*



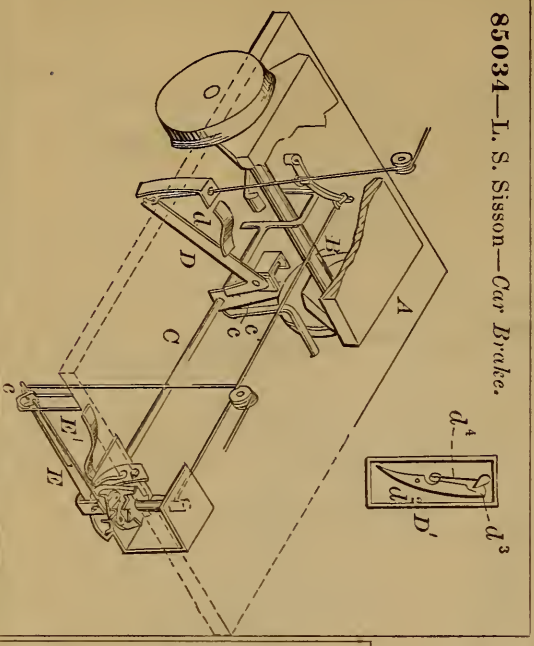
85033—D. Shockey—*Farm Gate.*



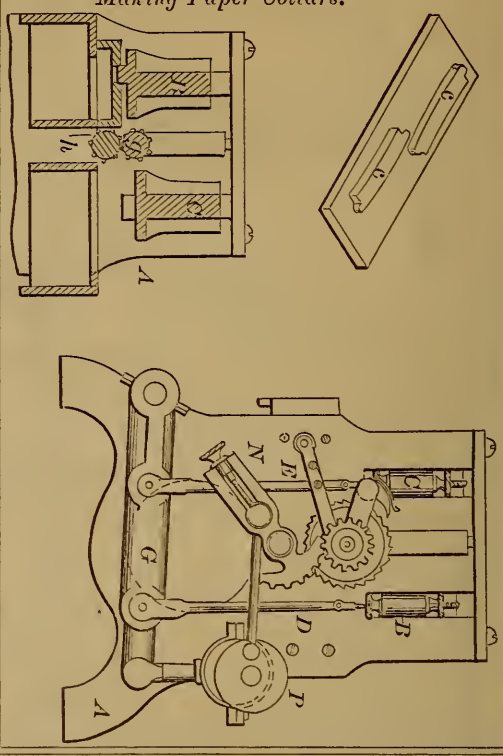
85031—E. Secly—*Wash Boiler.*



85034—L. S. Sisson—*Car Brake.*

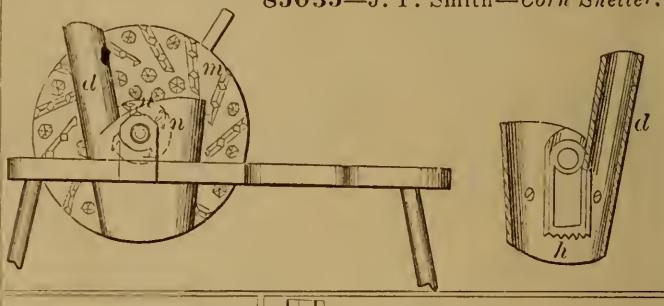


85037—Spofford & Montague—*For Making Paper Collars.*

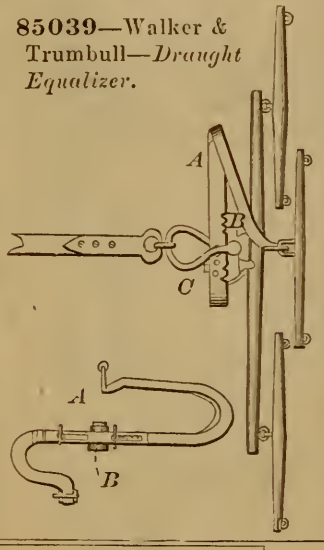


85033—W. S. Smoot—*Necktie.*

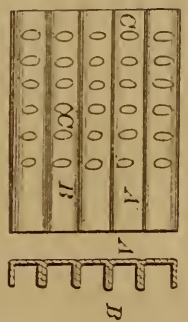
85035—J. P. Smith—*Corn Sheller.*



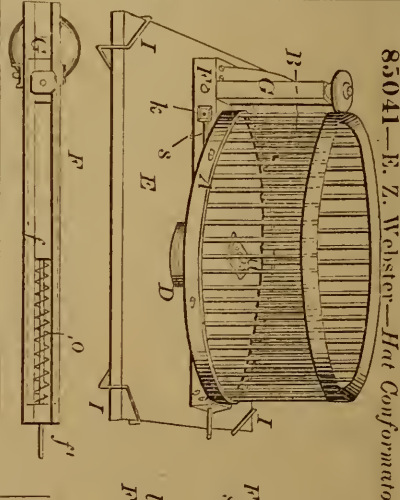
85039—Walker & Trumbull—*Draught Equalizer.*



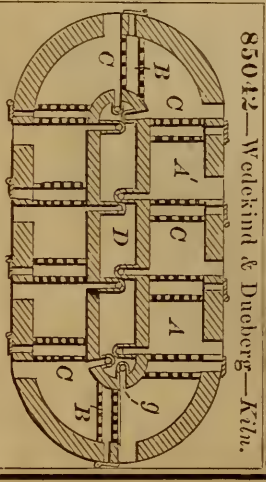
85043—G. A. Wells—*Riddle for Grain Separators.*



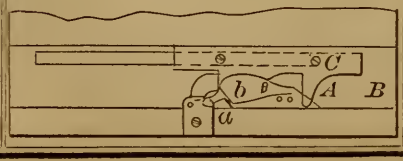
85041—E. Z. Webster—*Hat Conformator.*



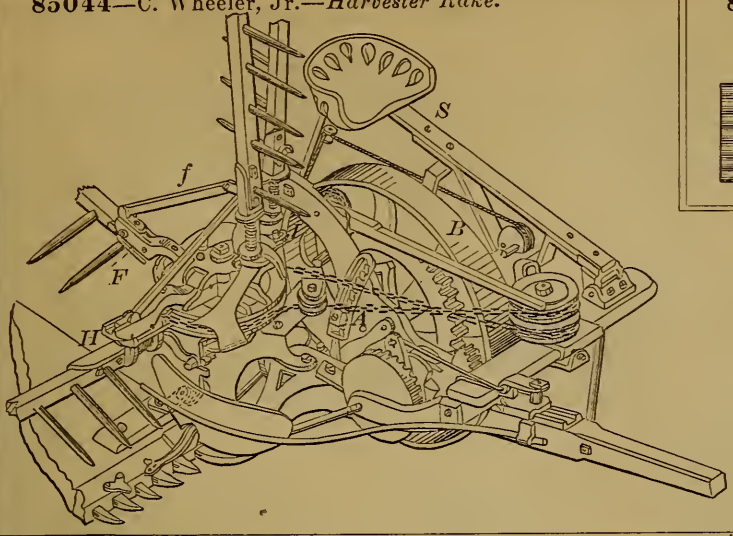
85042—Wedekind & Dueberg—*Kiln.*



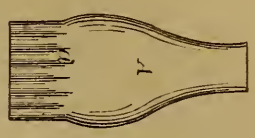
85040—A. Wrath—*Sewing Machine Shuttle.*



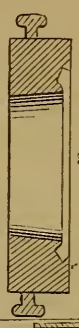
85044—C. Wheeler, Jr.—*Harvester Rake.*



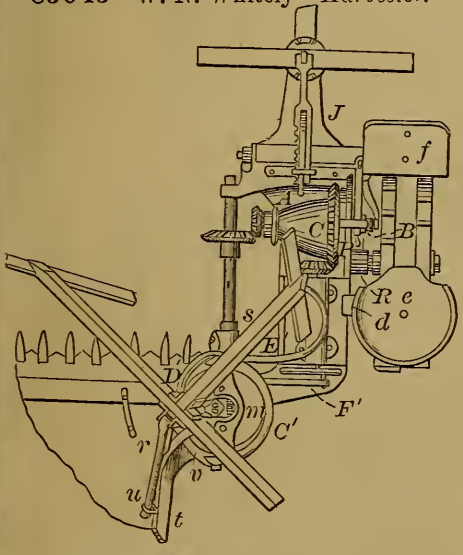
85047—S. R. Wilmot—*Lamp Chimney.*

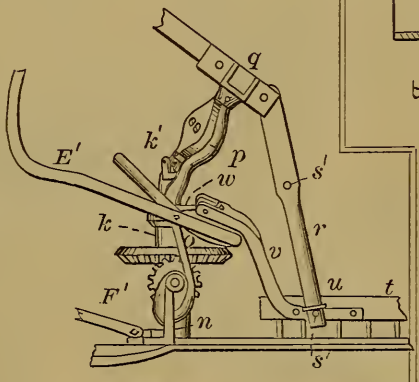


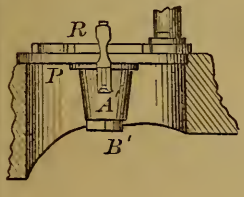
85046—W. Wilmington—*Chill for Casting Car Wheels.*

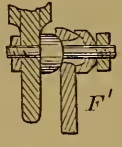


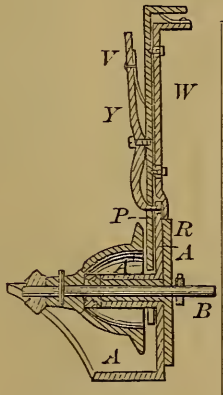
85045—W. N. Whitely—*Harvester.*



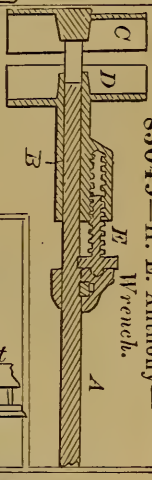




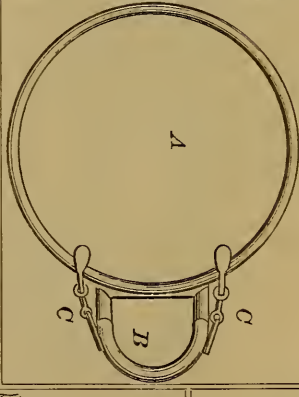




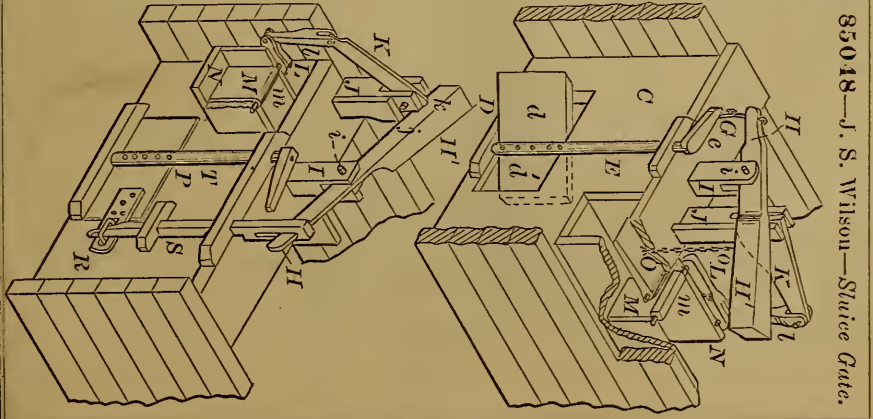
85049—H. E. Anthony—*Wrench.*



85050—J. H. Apel—*Children's Chair.*

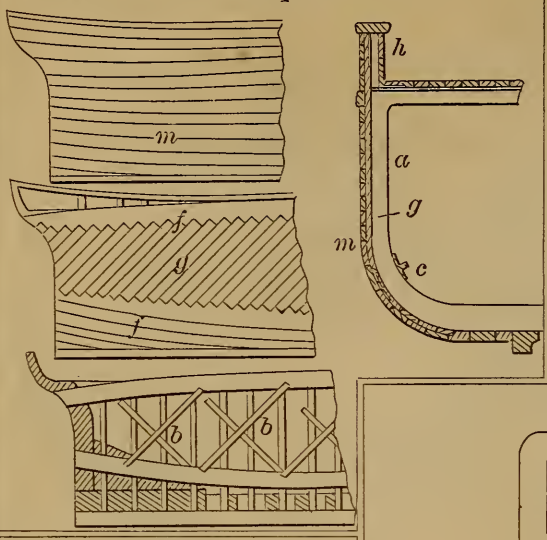


85048—J. S. Wilson—*Sluice Gate.*

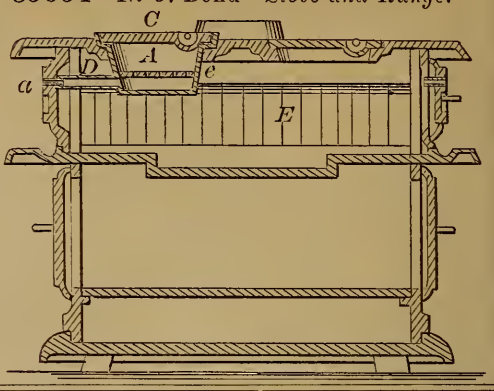


85052—J. Barker—*Horse Shoe.*

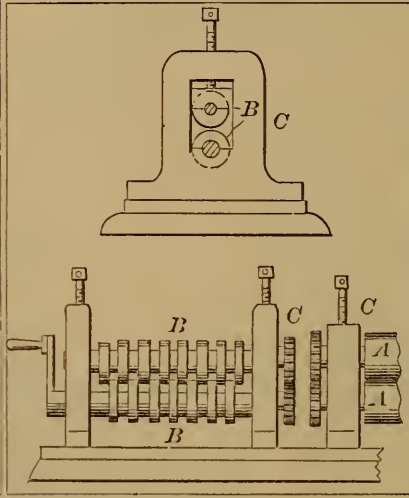
85051—J. Baird—*Composite Vessel.*



85054—N. O. Bond—*Stove and Range.*

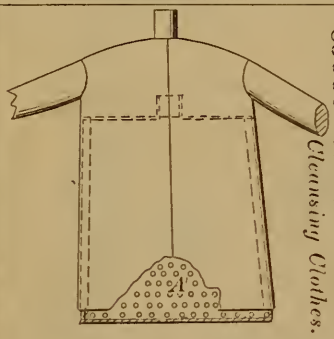


85057—L. Brandeis—*Solder.*

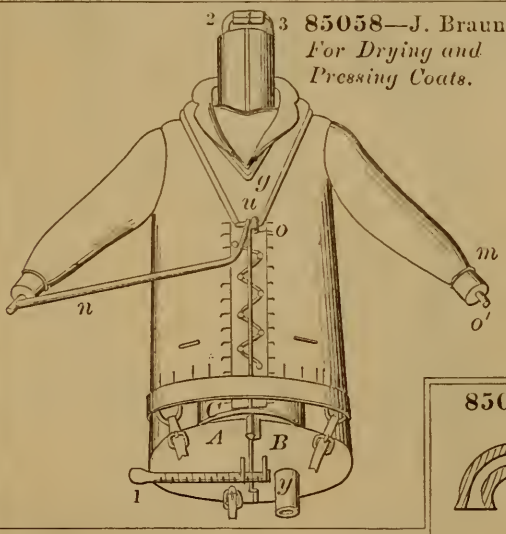


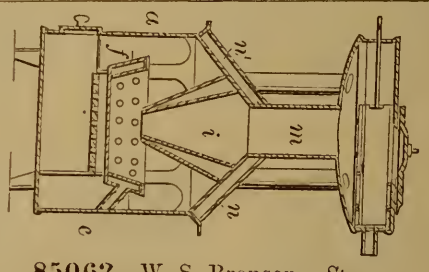
85059—J. Braun—*For Drying and Pressing Pantaloons.*

85060—J. Braun—*For Cleansing Clothes.*



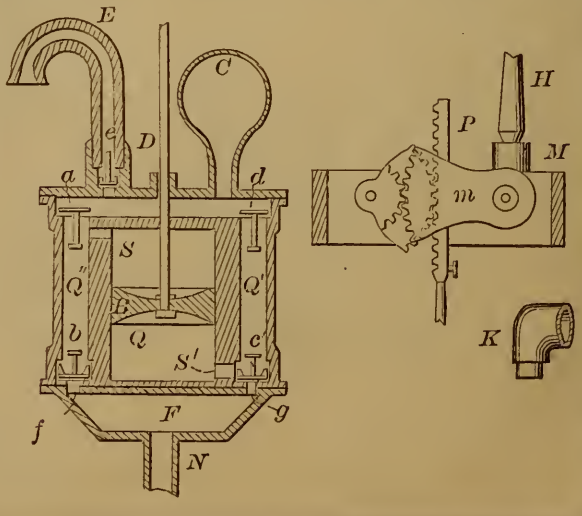
85058—J. Braun—*For Drying and Pressing Coats.*



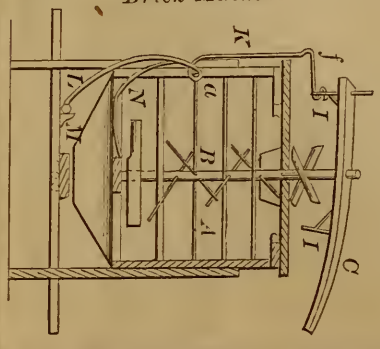


85062—W. S. Bronson—*Stove.*

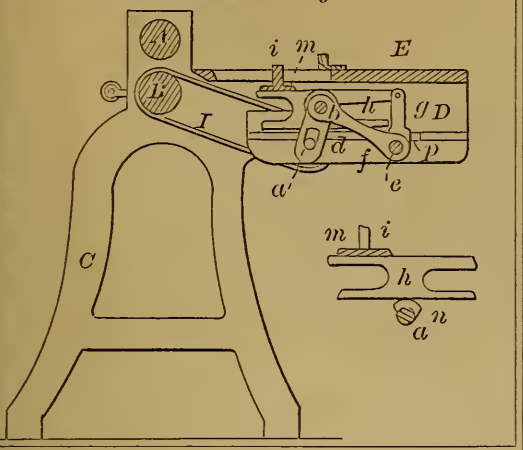
85063—B. F. Brown—*Submerged Pump.*



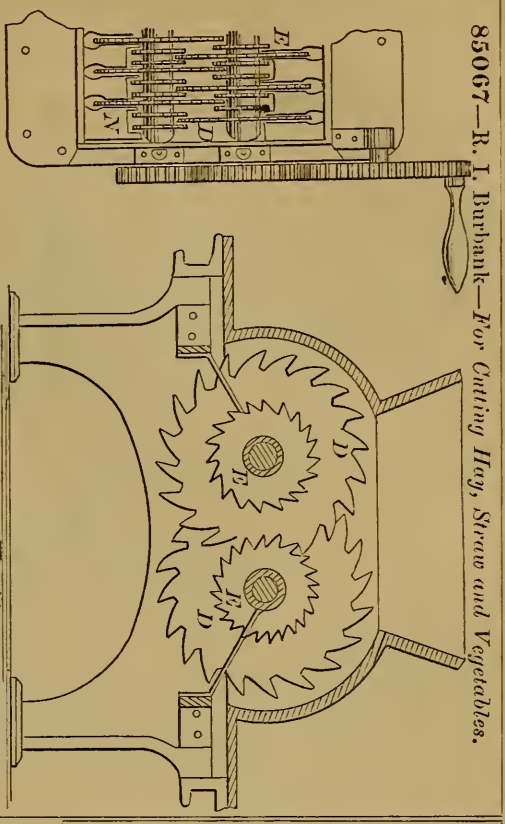
85061—Bretz, Sangster & Bretz—*Brick Machine.*



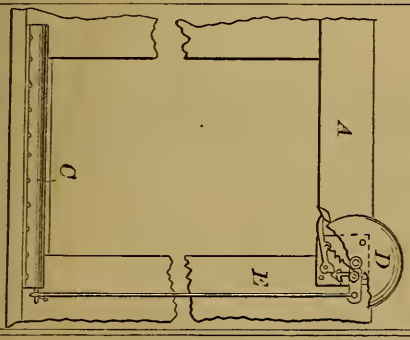
85064—S. Brown—*Feed Attachment for Machinery.*



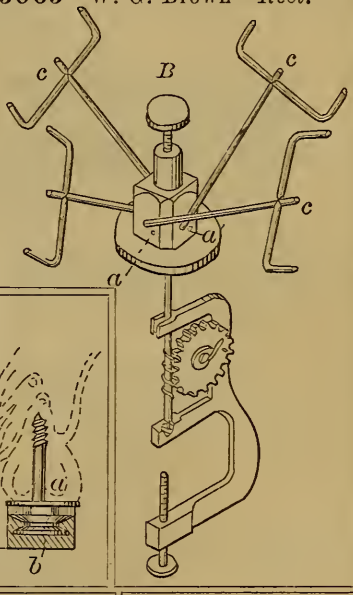
85067—R. I. Burbank—*For Cutting Hay, Straw and Vegetables.*



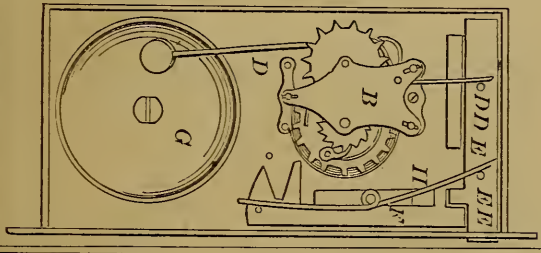
85068—R. B. Cursley—*Alarm Ring.*



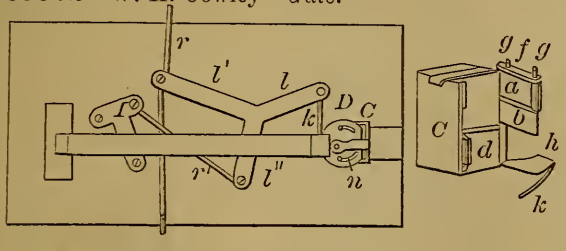
85065—W. G. Brown—*Reel.*



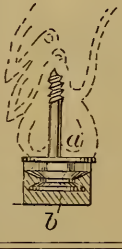
85066—I. N. Buck—*Burglar Alarm.*



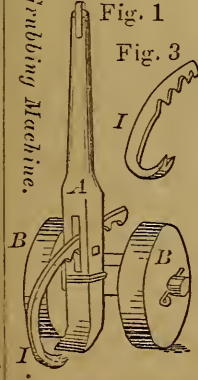
85072—W. H. Cowley—*Gate.*



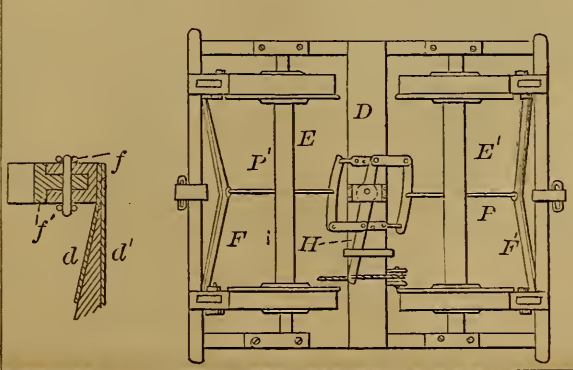
85071—O. B. Collins—*Furniture Tip.*



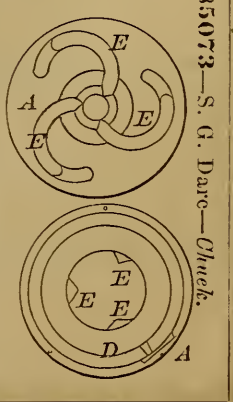
85069—Chase & Devendorff—*Grubbing Machine.*



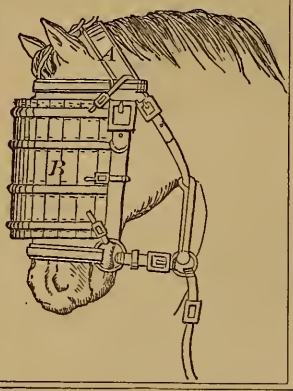
85074—D. H. Dotterer—*Car Brake.*



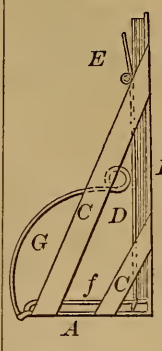
85073—S. G. Darc—*Chuck.*



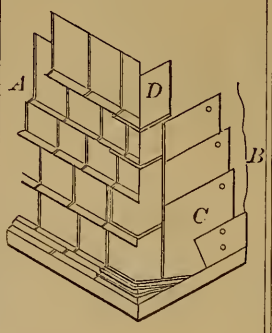
85075—J. Dunlap—*Horse Blinder.*



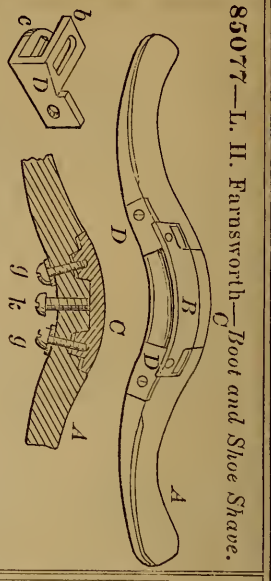
85078—J. D. Field—*Paper File.*



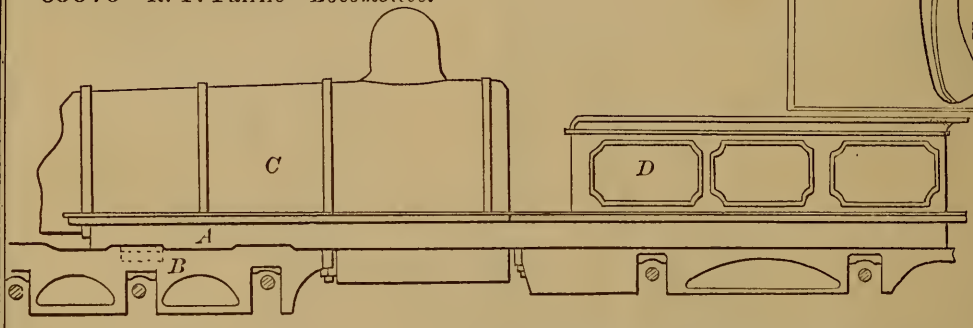
85082—B. Flowers—*Shingling Roofs.*

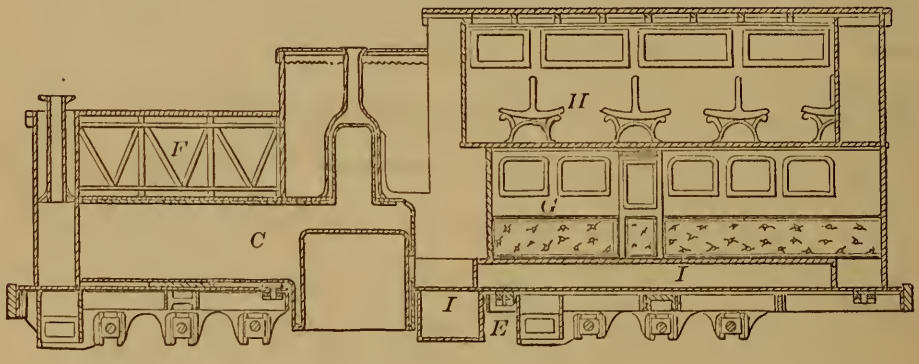


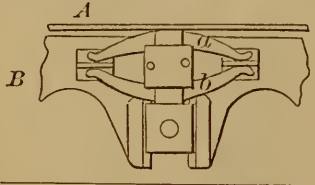
85077—L. H. Farnsworth—*Boot and Shoe Shave.*

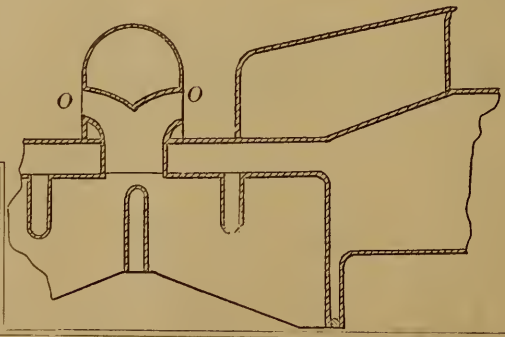


85076—R. F. Fairlie—*Locomotive.*

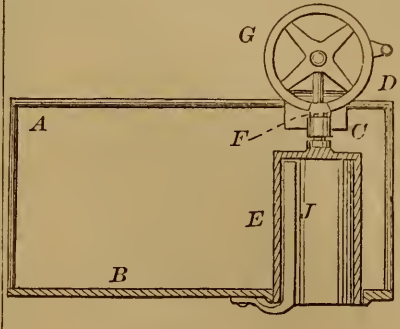




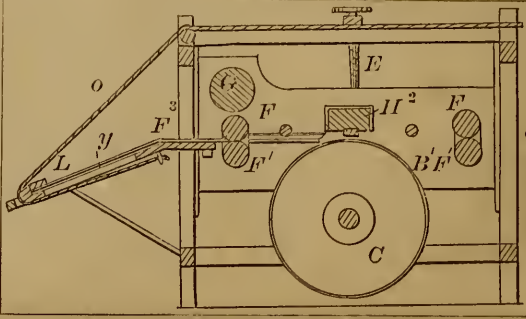




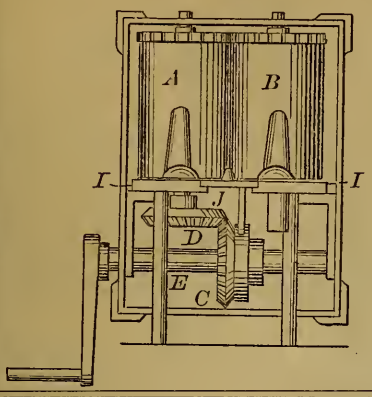
85080—C. W. Flint—*Ice Cutter.*



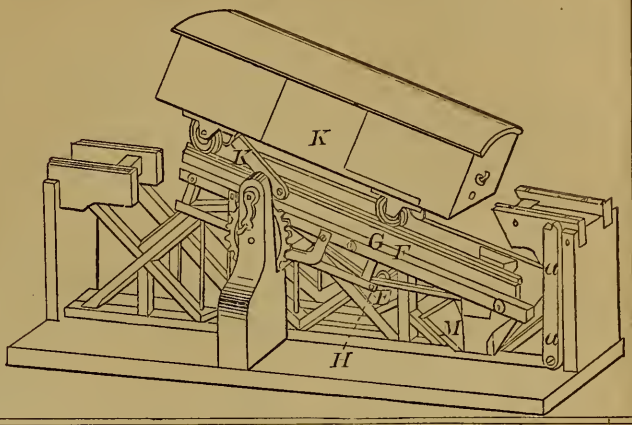
85081—J. Flint—*Grinding Machine.*



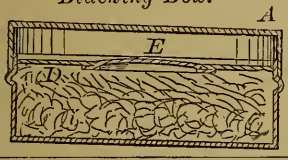
85083—J. Gardner—*Making Confectionery.*



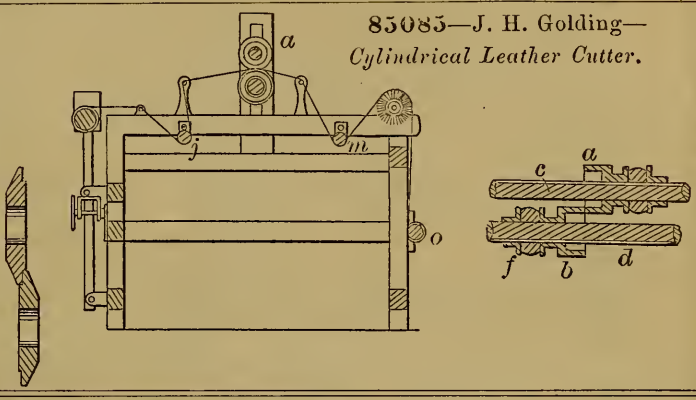
85086—Goodwin & McCord—*Dumping Car.*



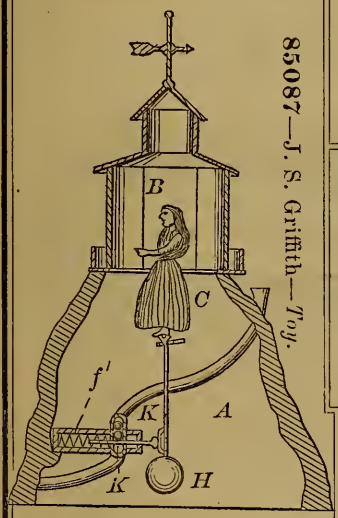
85084—W. L. Gilroy—*Blacking Box.*

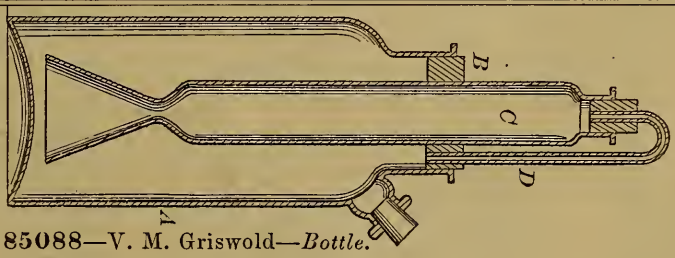


85085—J. H. Golding—*Cylindrical Leather Cutter.*



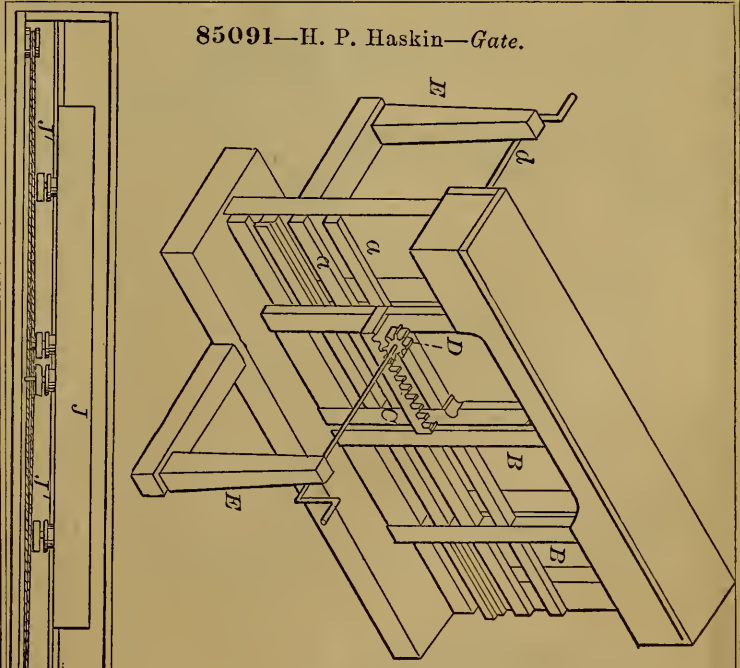
85087—J. S. Griffith—*Toy.*



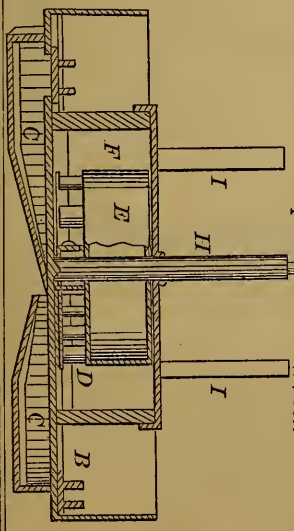


85088—V. M. Griswold—*Bottle.*

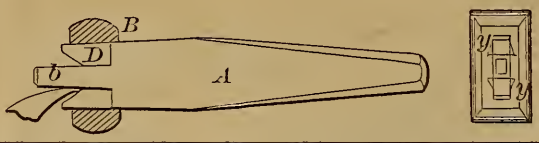
85091—H. P. Haskin—*Gate.*



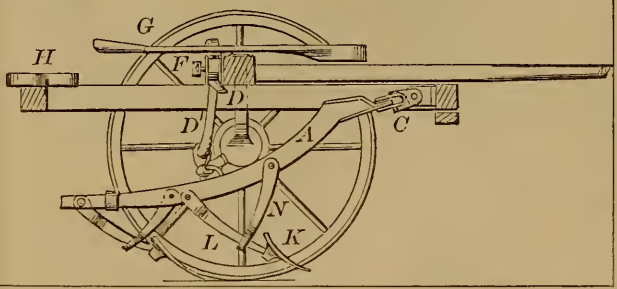
85094—W. Heupel—*Water Wheel.*



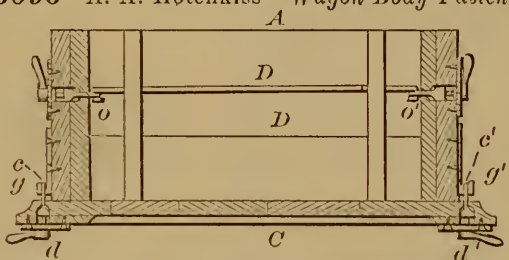
85090—E. Hamlin—*Swage for Saw Teeth.*



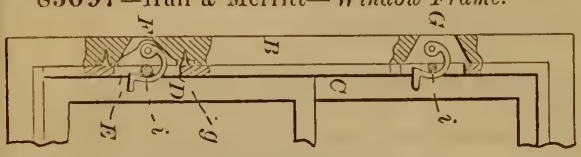
85095—Hinds & Gee—*Cultivator.*



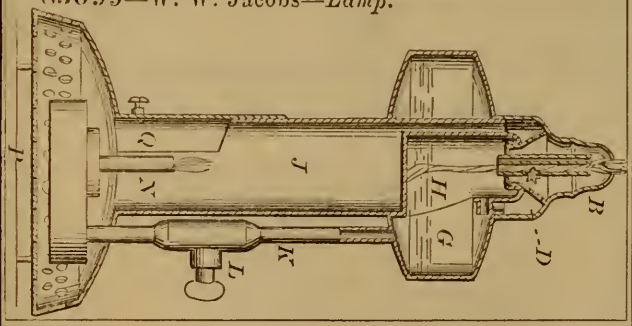
85096—A. A. Hotchkiss—*Wagon Body Fastening.*



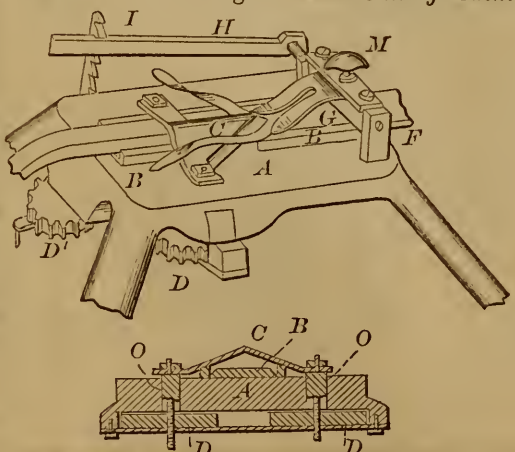
85097—Hull & Merritt—*Window Frame.*



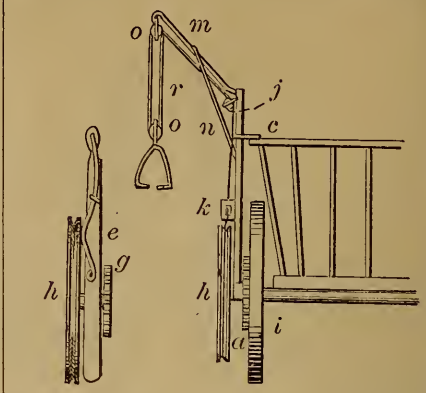
85099—W. W. Jacobs—*Lamp.*

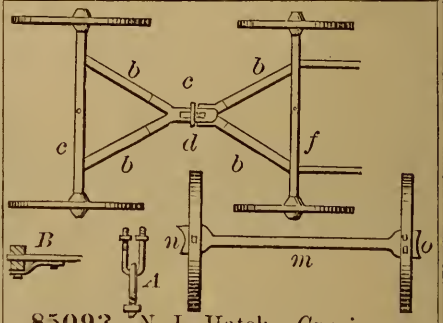


85102—S. H. King—*Leather Cutting Machine.*

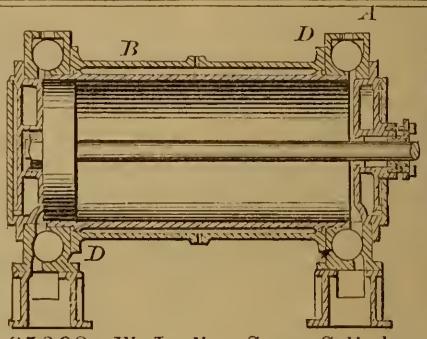


85092—N. L. Hatch—*Hay Loader.*

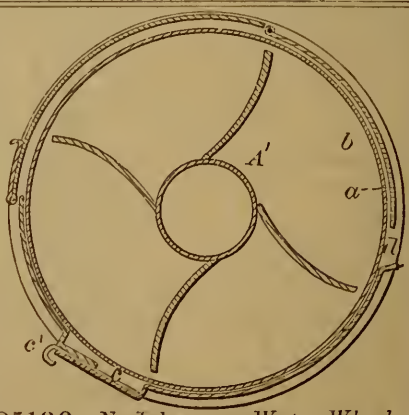




85093—N. L. Hatch—*Carriage.*

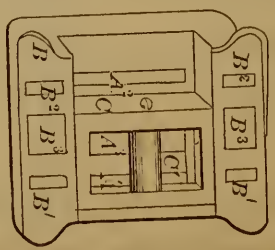


85098—W. Inglis—*Steam Cylinder.*

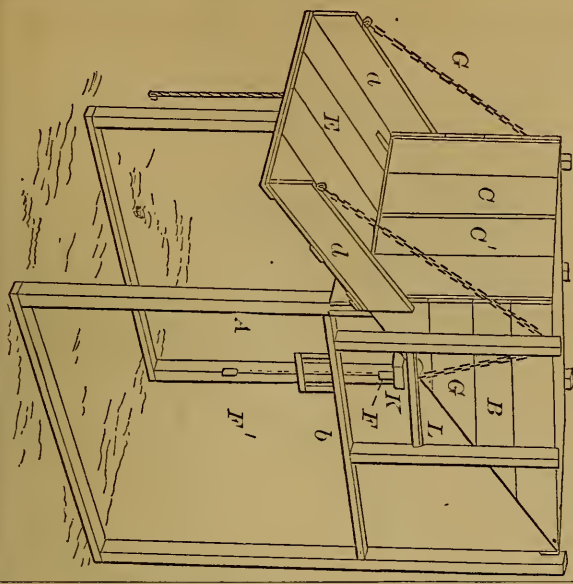


85100—N. Johnson—*Water Wheel.*

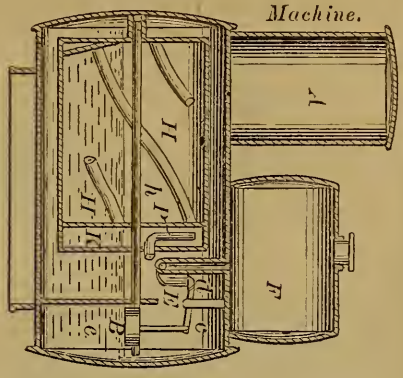
85105—J. Lawson—*Slide Valve.*



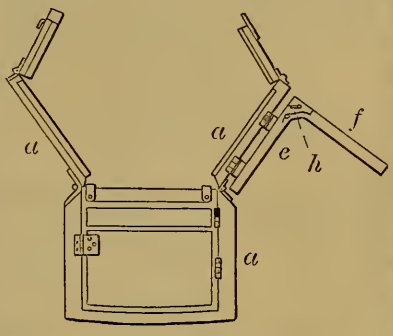
85101—E. R. Kerr—*Wood and Coal Dumping.*



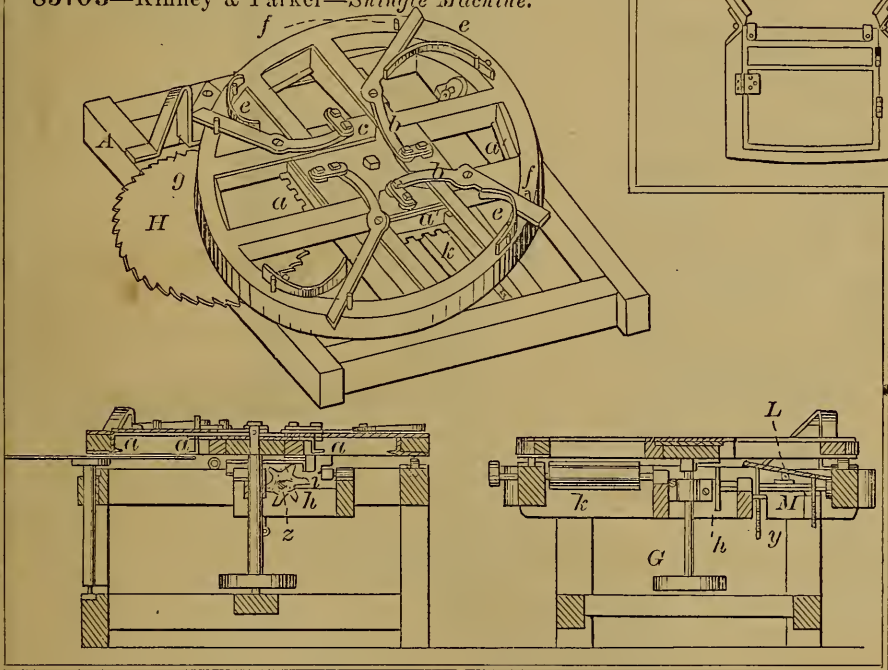
85104—Lawler & Gibson—*Gas Machine.*



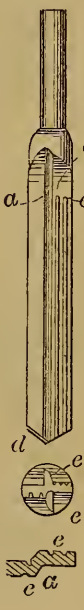
85108—P. Leek—*Carriage Door.*



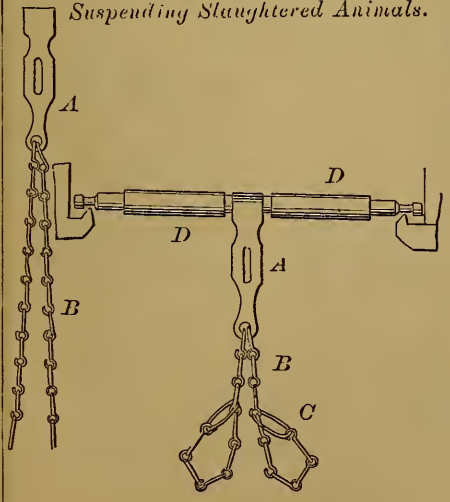
85103—Kinney & Parker—*Shingle Machine.*



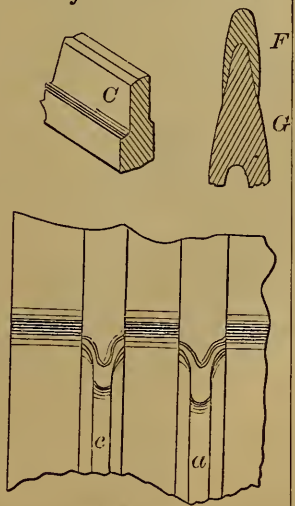
85107—C. W. Le Count—*Drill.*



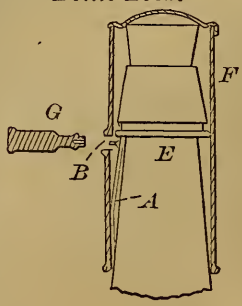
85109—Leland & Rusco—*For Suspending Slaughtered Animals.*



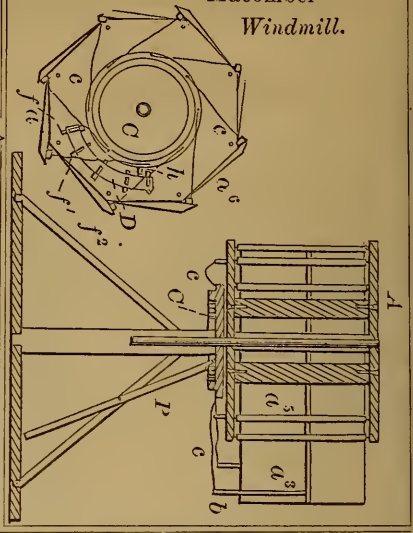
85110—J. Lippincott—*Bar for Axe Bit Blanks.*



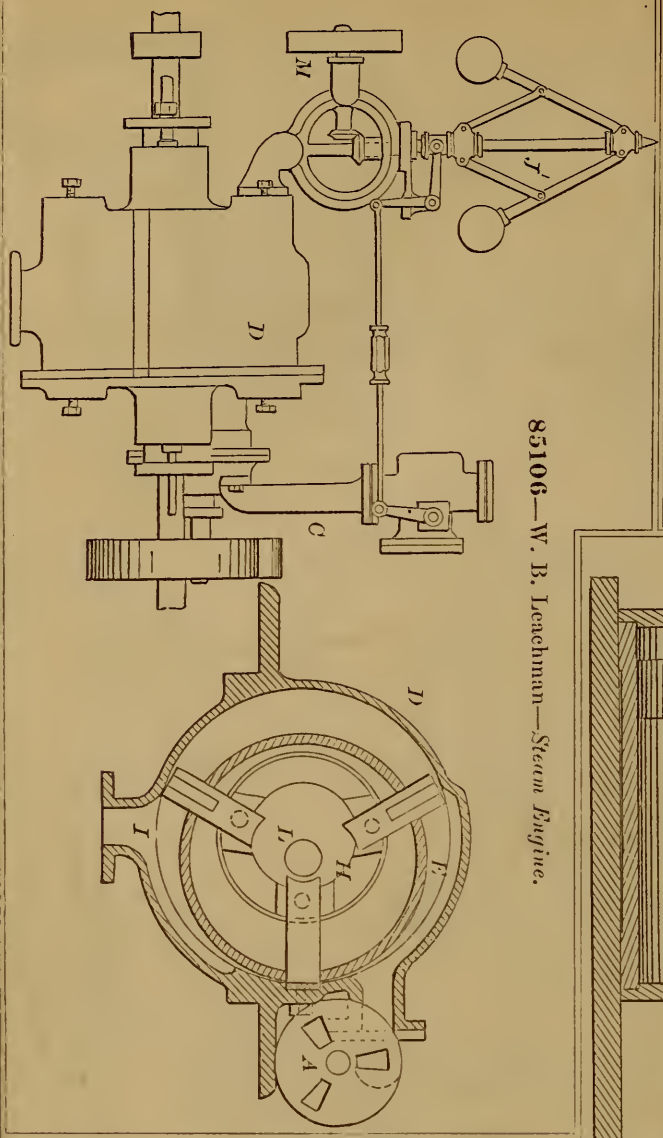
85111—W. A. Ludden—*Bottle Lock.*



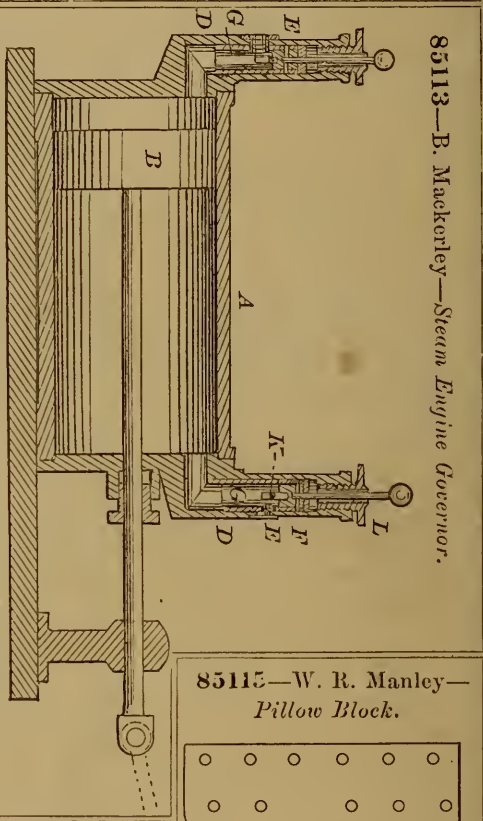
85114—H. R. Macomber—*Windmill.*



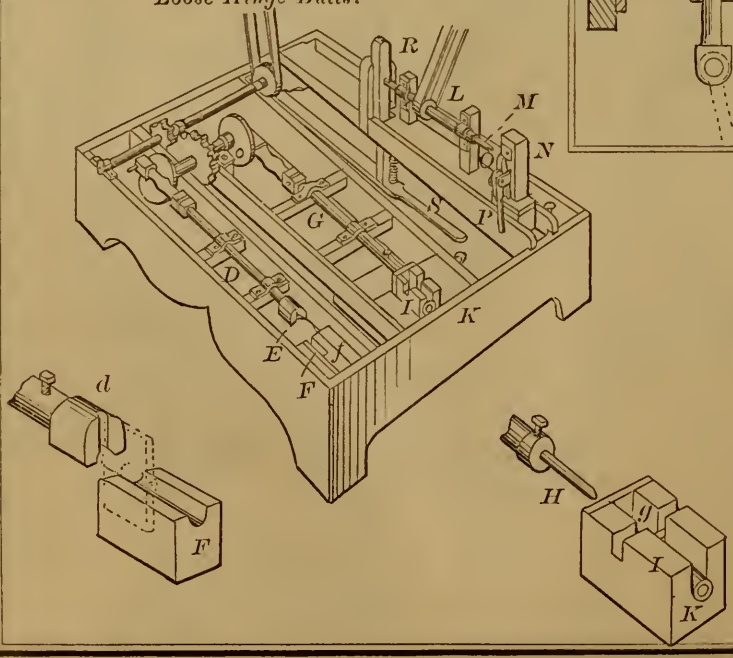
85106—W. B. Leachman—*Steam Engine.*



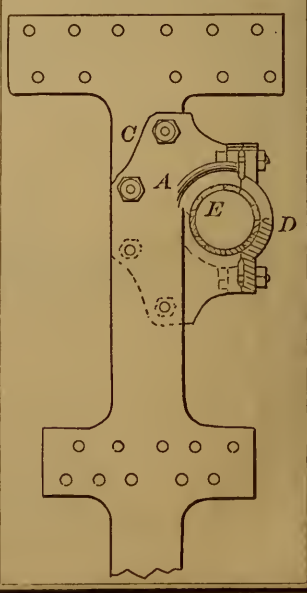
85113—B. Mackerley—*Steam Engine Governor.*



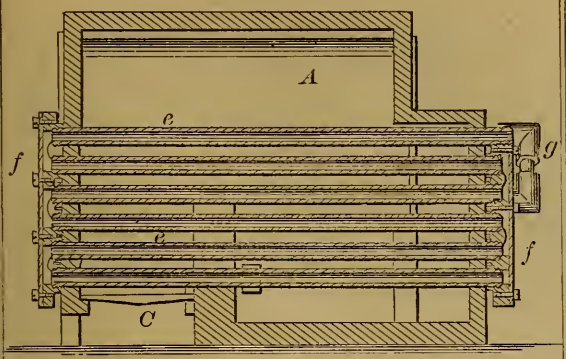
85112—Luther, Lyon & Edwards—*Finishing Loose Hinge Butts.*



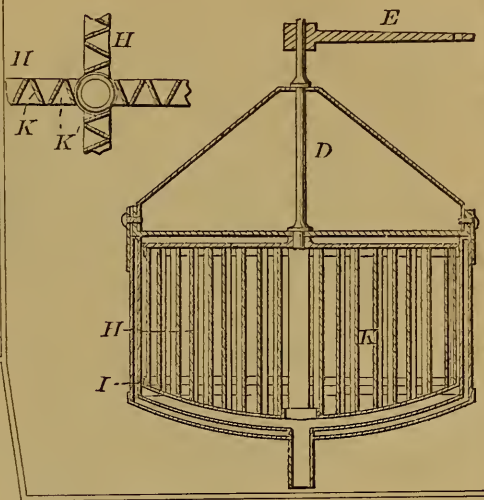
85115—W. R. Manley—*Pillow Block.*



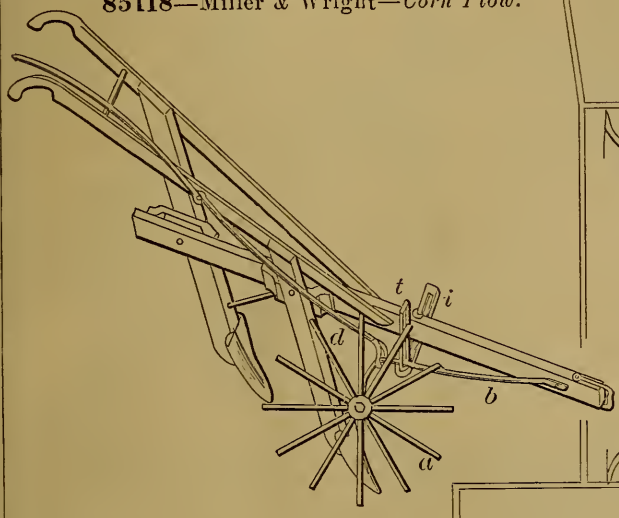
85116—D. F. McKim—*Feed Water Heater for Steam Generators.*



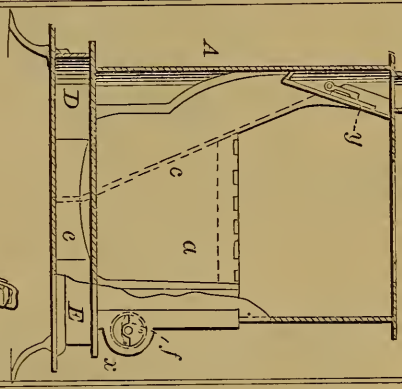
85117—J. N. Meriam—*For Stirring and Cooling Lard.*



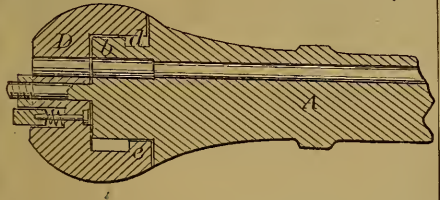
85118—Miller & Wright—*Corn Plow.*



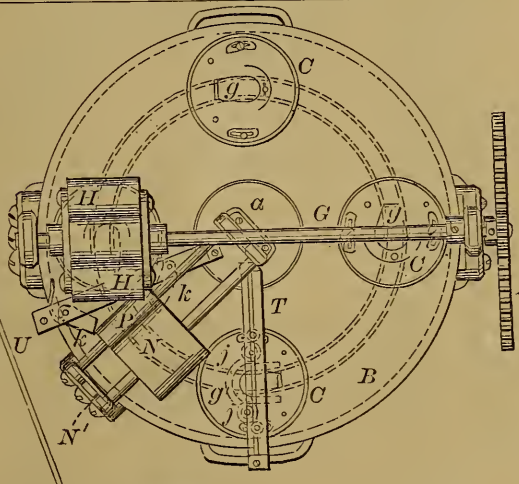
85122—P. Paradis—*Stove.*



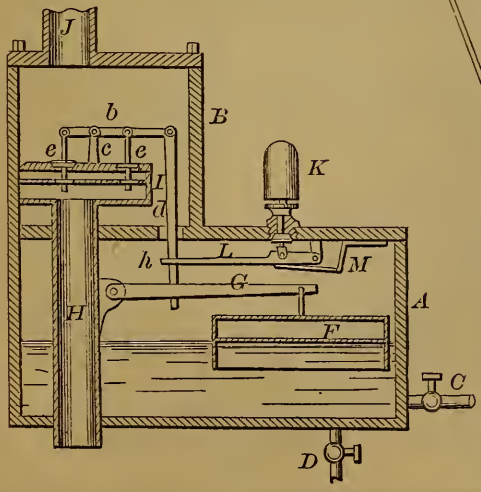
85120—P. J. J. Nočl—*Fire Arm.*

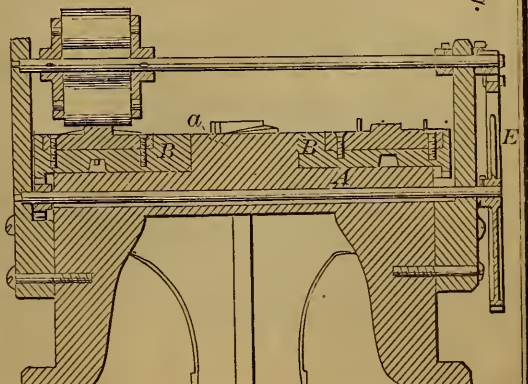


85119—W. Morehouse—*Horse Shoe making.*

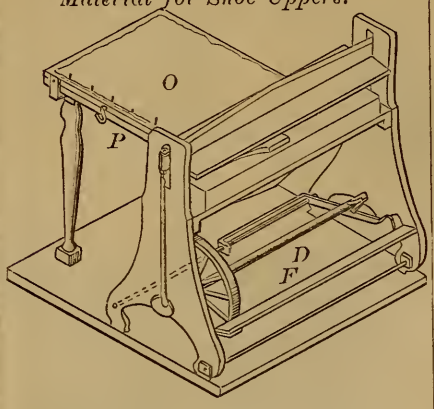


85121—G. P. Nutting—*Water Supply Regulator.*

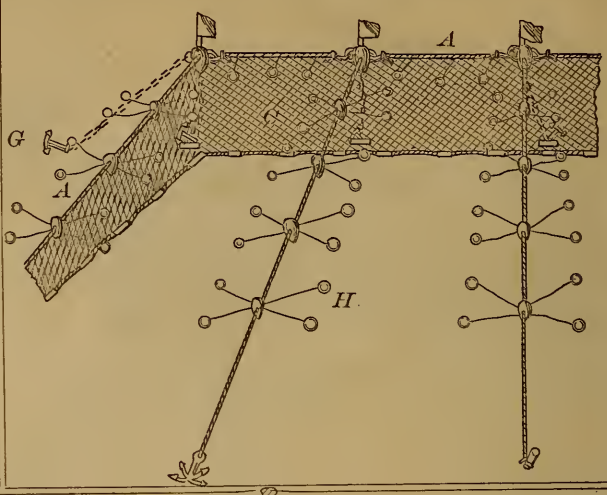




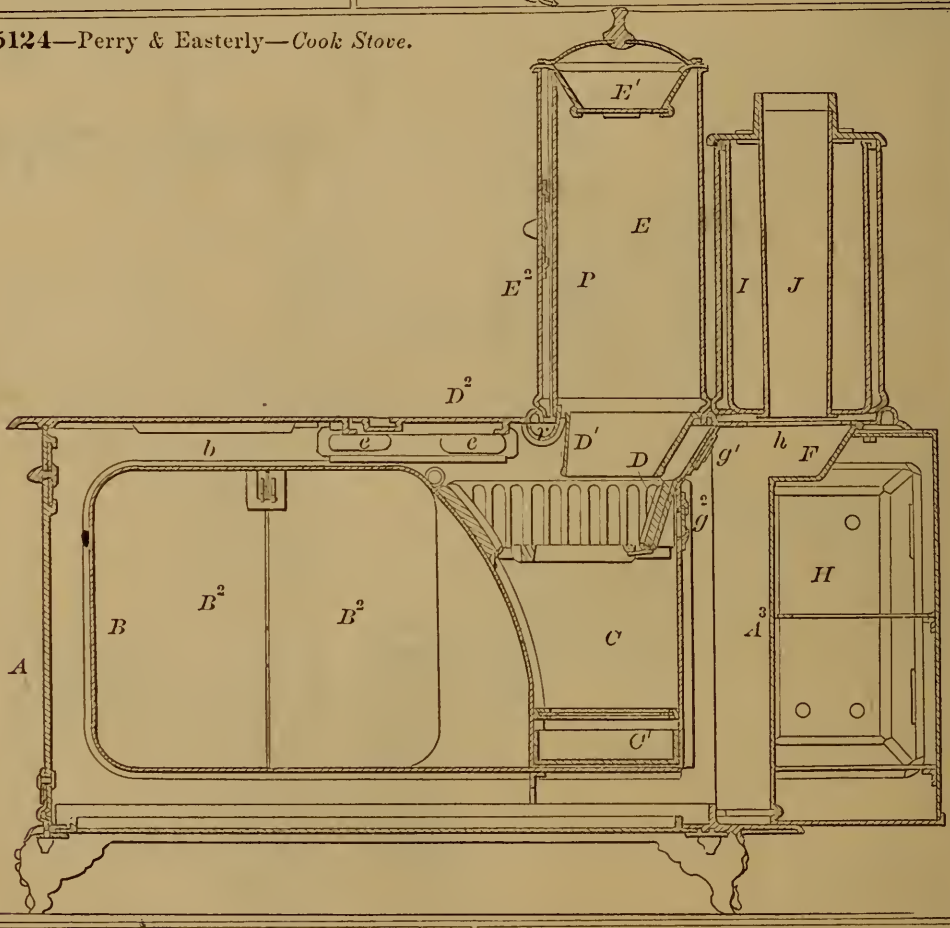
85123—G. W. & B. F. Parrott & Timson—*For Folding and Cutting Material for Shoe Uppers.*



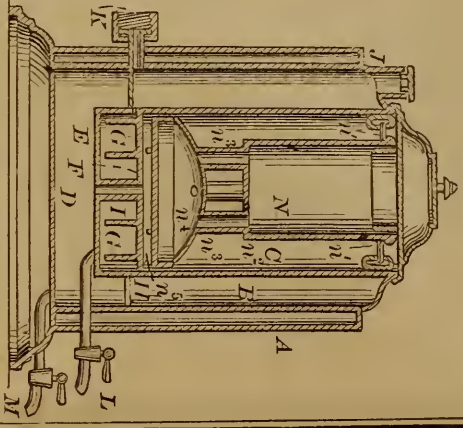
85126—W. H. Pitt—*Bathing Apparatus.*



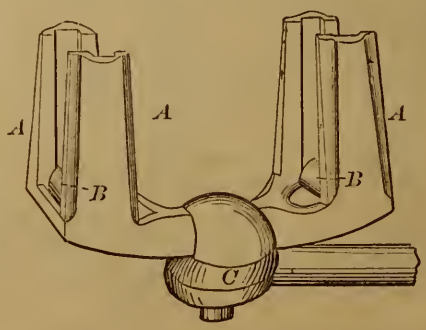
85124—Perry & Easterly—*Cook Stove.*



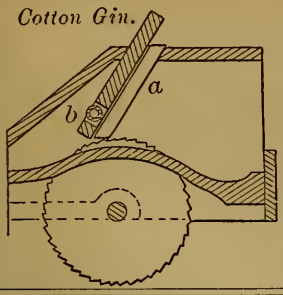
85125—H. Pietsch—*Water Cooler.*



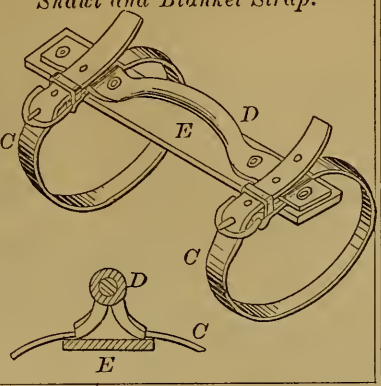
85127—N. M. Platt—*Gate.*



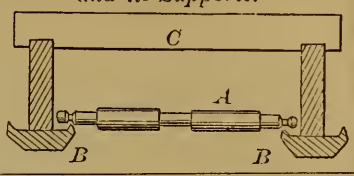
85128—A. A. Porter—*Cotton Gin.*



85129—T. W. & H. K. Porter—*Shawl and Blanket Strap.*

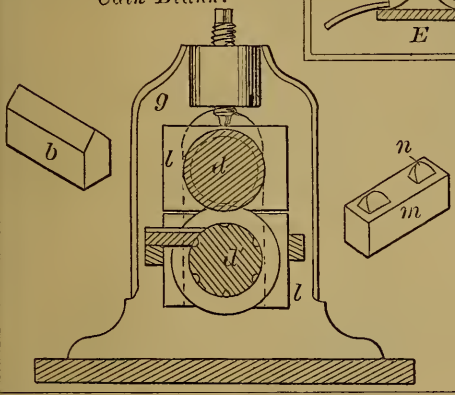


85134—V. E. Rusco—*Gambrel and its Supports.*

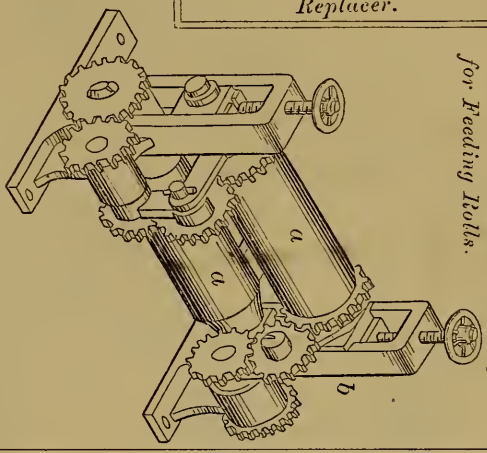


85137—H. Schreiner—*Car Replacer.*

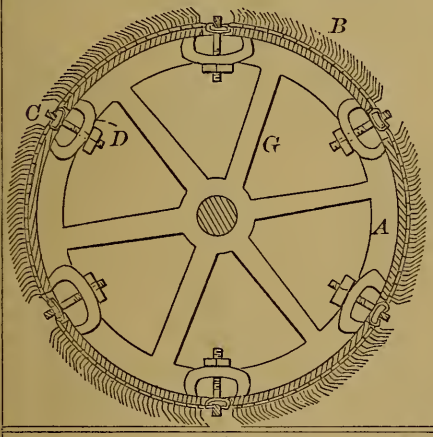
85130—A. Reese—*Toe Calk Blank.*



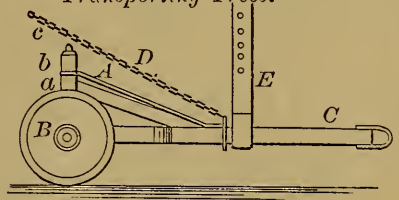
85131—J. Richards—*Gearing for Feeding Rolls.*

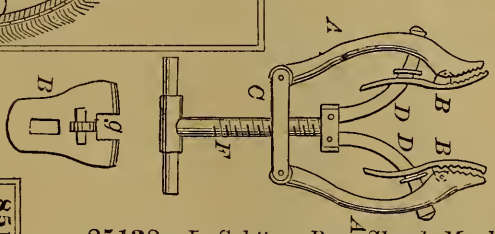


85133—D. H. Rowe—*Carding Engine.*



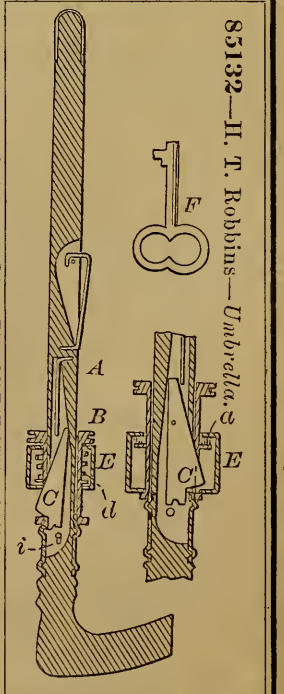
85135—J. Ryder—*For Extracting and Transporting Trees.*



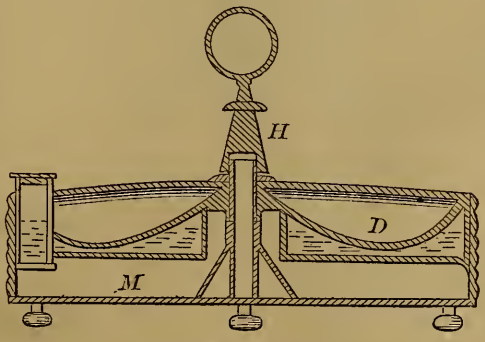


85138—L. Schÿe—*Boot Shank Machine.*

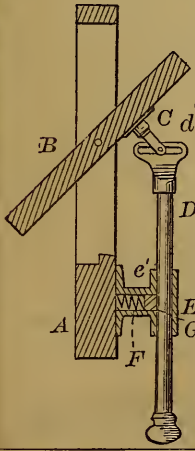
85132—H. T. Robbins—*Umbrella.*



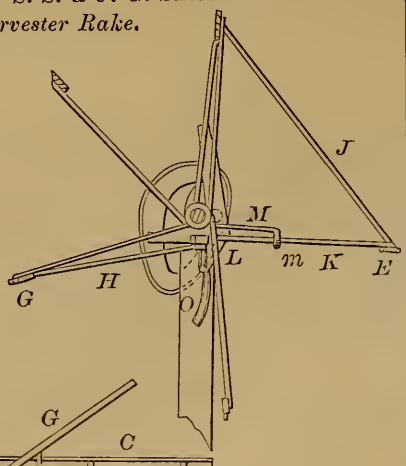
85136—W. H. Scanlan—*Portable Service Heater.*

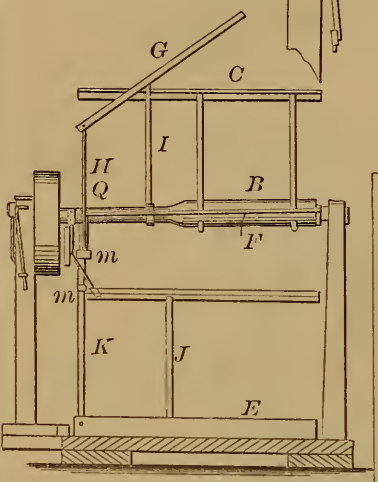


85143—Stickney & McGee—*For Opening Railway Car Ventilators.*

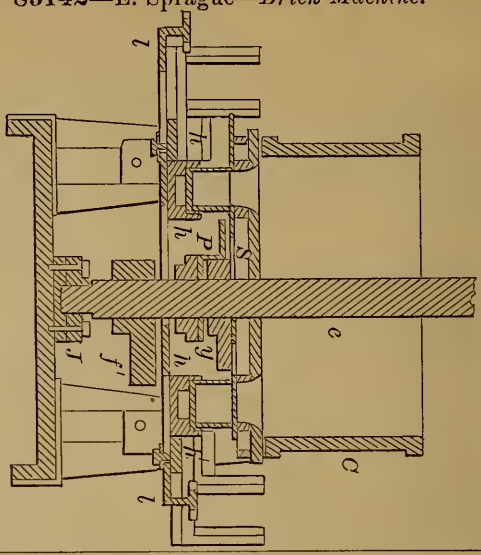


85139—S. S. & J. G. Sherman—*Harvester Rake.*

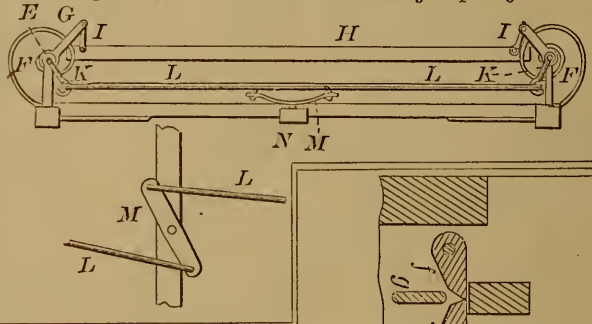


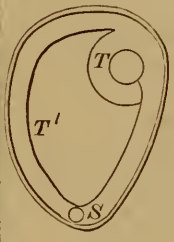


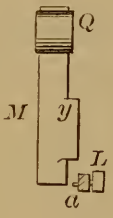
85142—E. Sprague—*Brick Machine.*



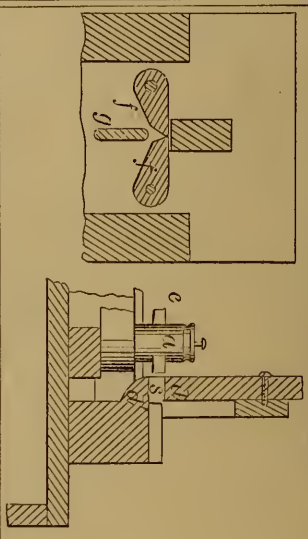
85144—A. C. Stowe—*Carriage Spring.*



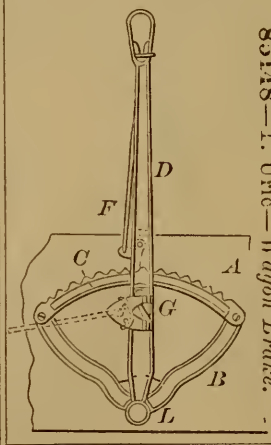




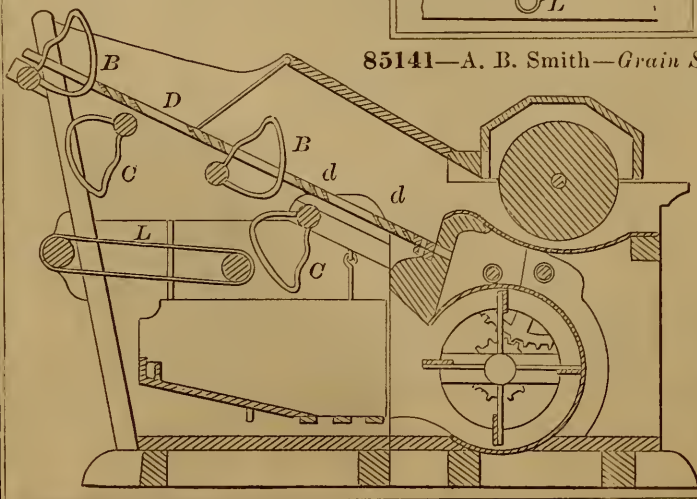
85146—L. Thomas—*Pointing Spikes.*

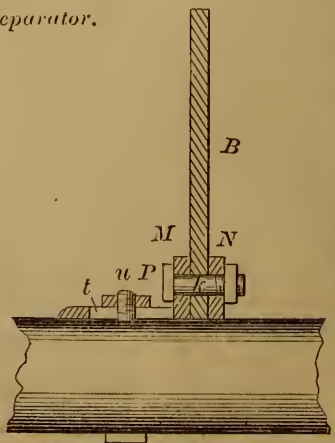


85148—T. Uric—*Wagon Brake.*

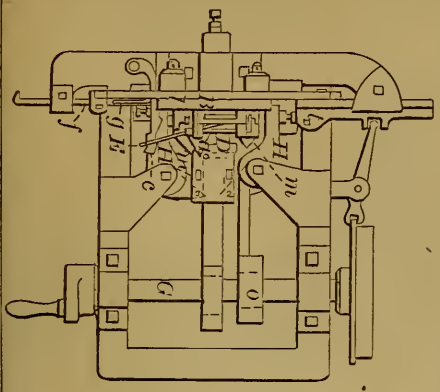


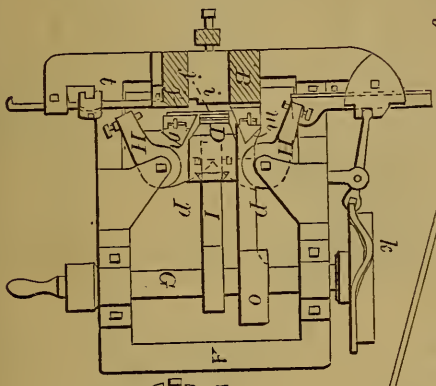
85141—A. B. Smith—*Grain Separator.*

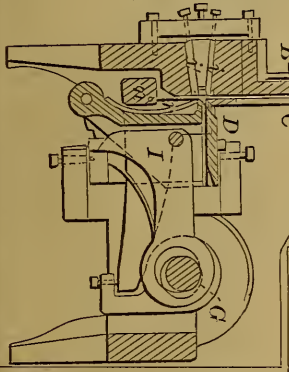




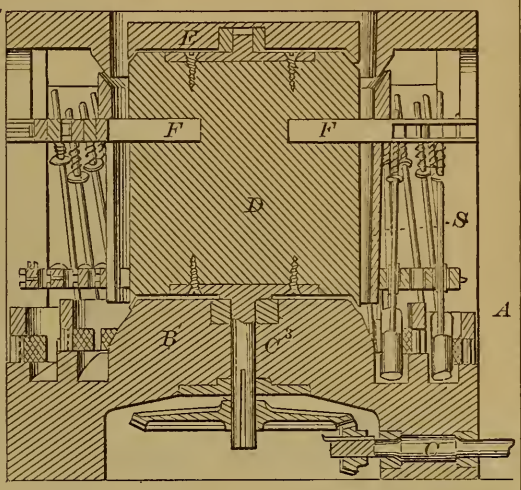
85145—Sweet & Elliott—*For Making Cut Nails.*



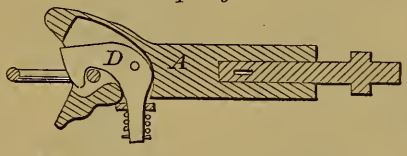


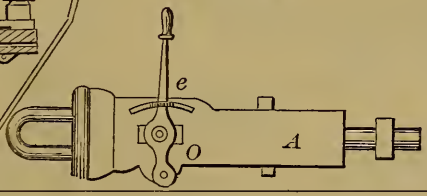


85153—E. J. Wilson—*For Crushing Rock.*



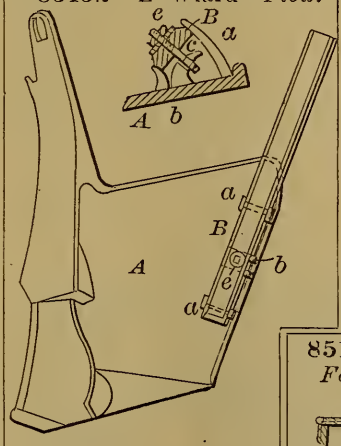
85147—A. B. Thompson—*Car Coupling.*



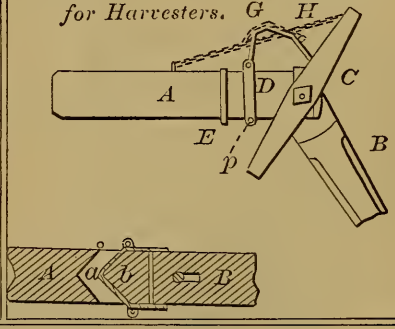


85149—G. E. Van Amringe—*Tube for Steam Generators.*

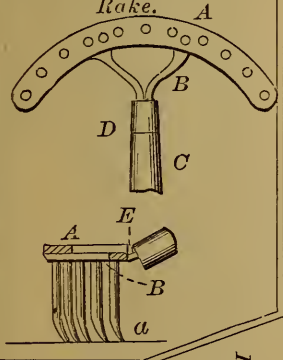
85152—E Wiard—*Plow.*



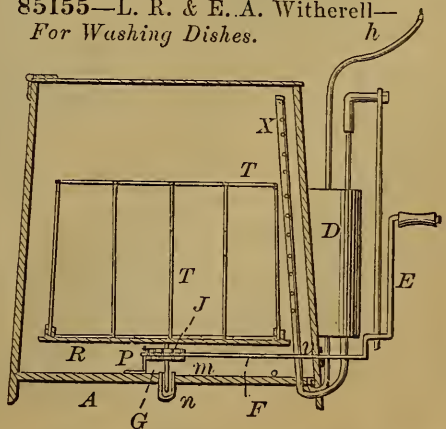
85150—J. Wadleigh—*Tongue for Harvesters.*



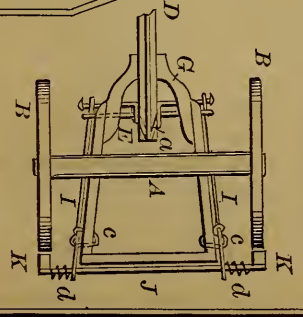
85154—A. Winters—*Rake.*



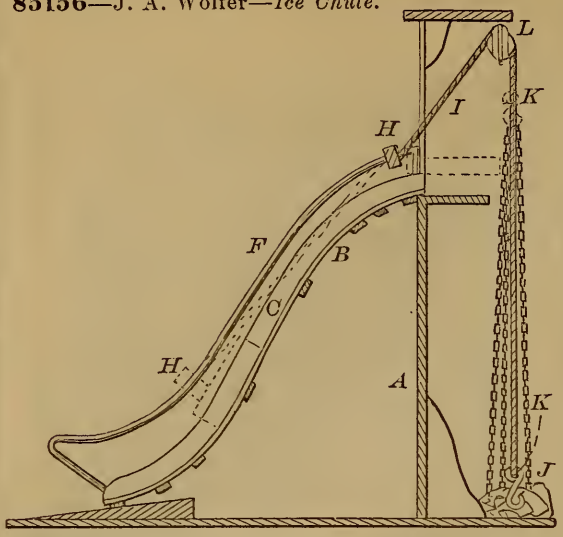
85155—L. R. & E. A. Witherell—*For Washing Dishes.*



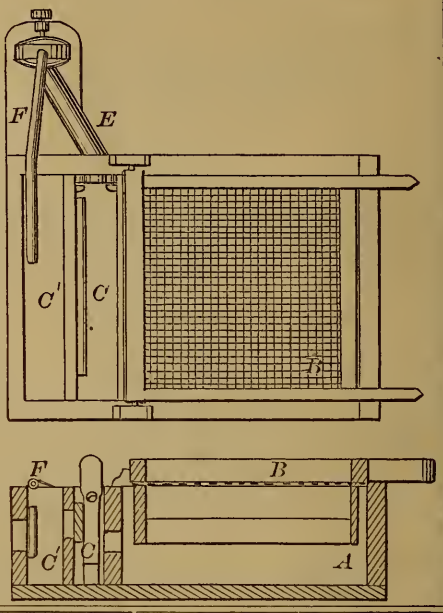
85151—Welsh & Wylie—*Wagon Brake.*



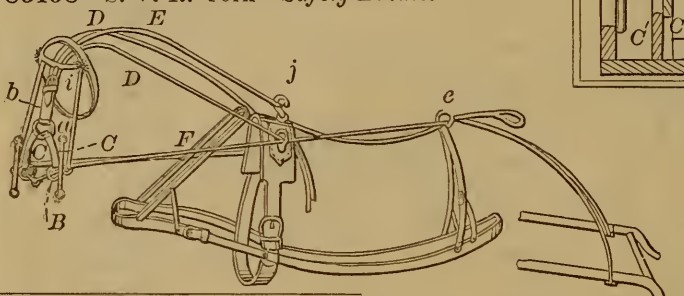
85156—J. A. Wolfer—*Ice Chute.*



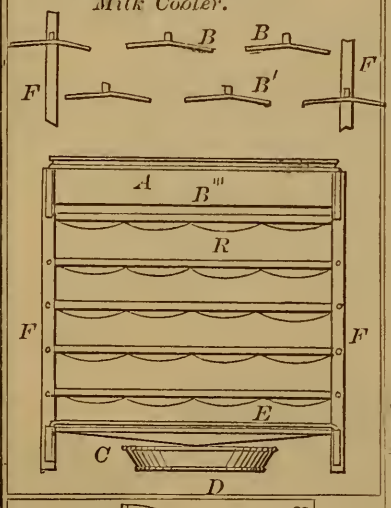
85157—J. Wrinkle—*For Mixing Coloring Matter with Paper Pulp.*



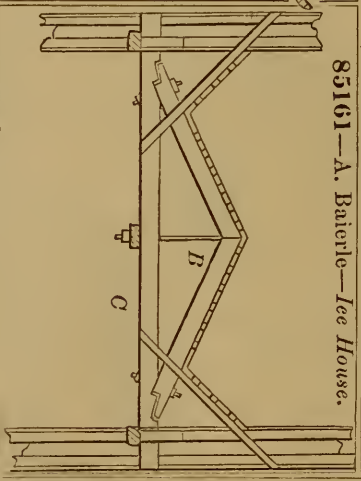
85158—S. V. R. York—*Safety Bridle.*



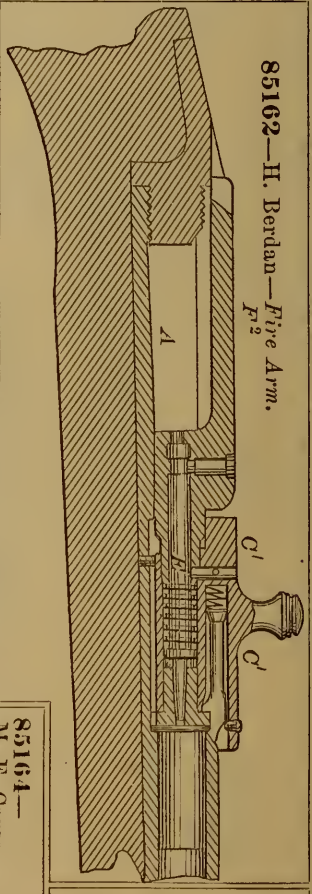
85160—L. B. Arnold—*Milk Cooler.*



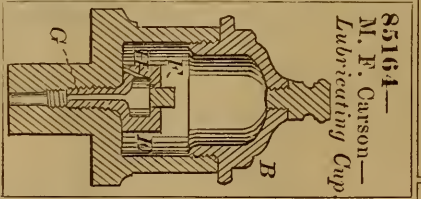
85161—A. Baierle—*Ice House.*



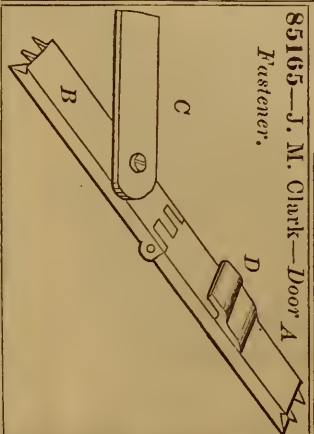
85162—H. Berdan—*Fire Arm.*



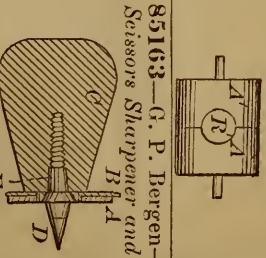
85164—M. F. Carson—*Lubricating Cup.*



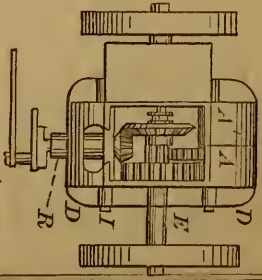
85165—J. M. Clark—*Door Fastener.*



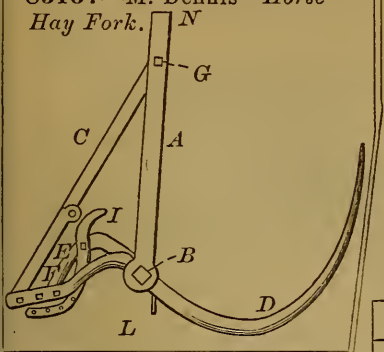
85163—G. P. Bergen—*Scissors Sharpener and Screw Driver.*



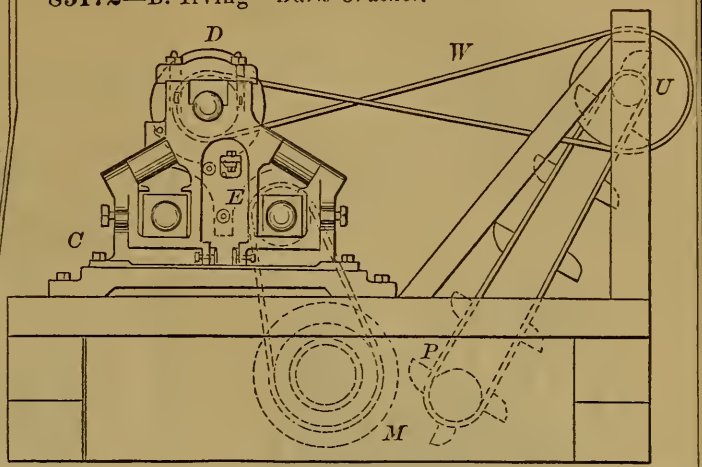
85159—G. W. N. Yost—*Harvester.*



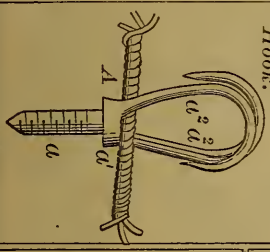
85167—M. Dennis—*Horse Hay Fork.*



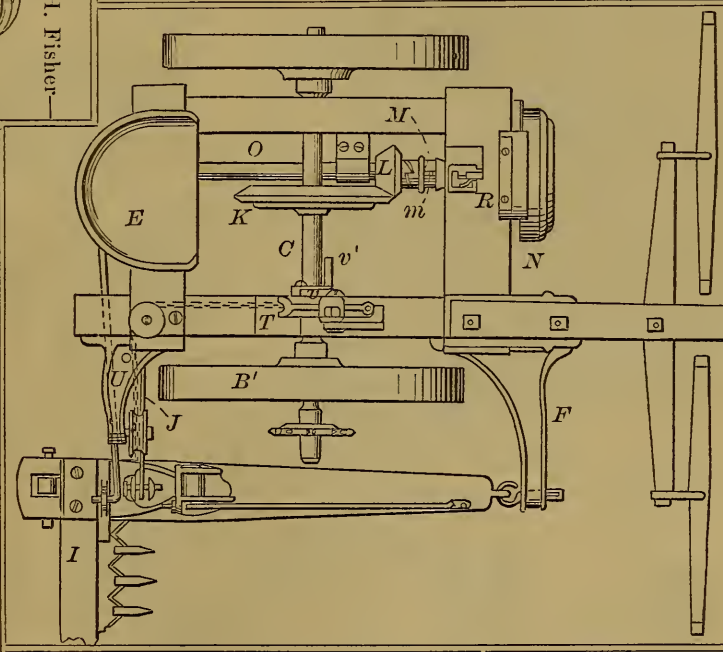
85172—B. Irving—*Bark Crusher.*



85169—H. Fisher—*Hook.*

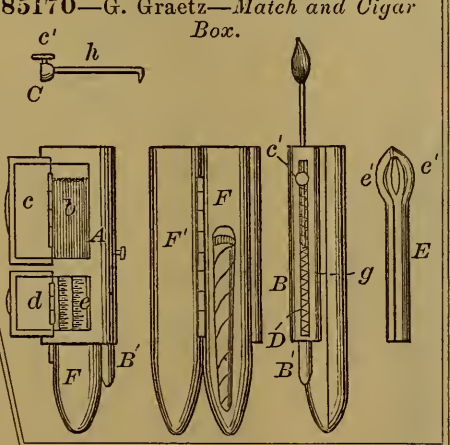


85168—J. A. Dodge—*Harvester.*

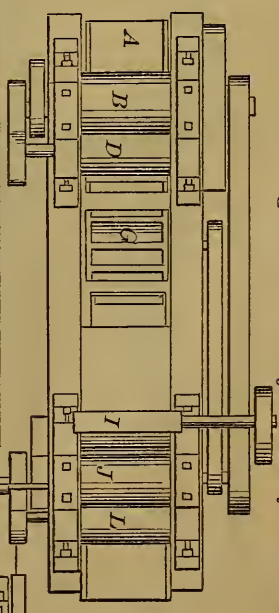


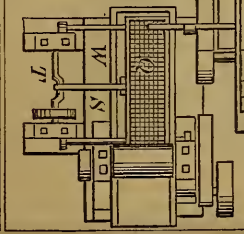
85174—B. Irving—*Concentrating the Extract of Tan Bark.*

85170—G. Graetz—*Match and Cigar Box.*

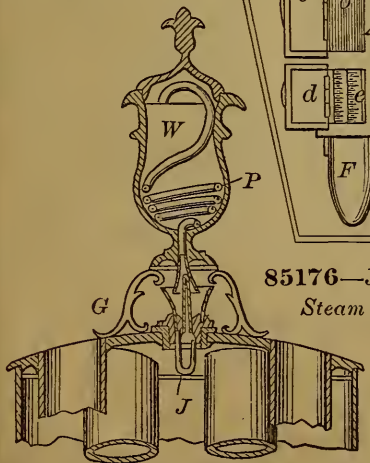


85173—B. Irving—*For Obtaining Extracts from Bark.*

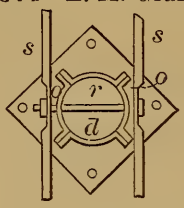


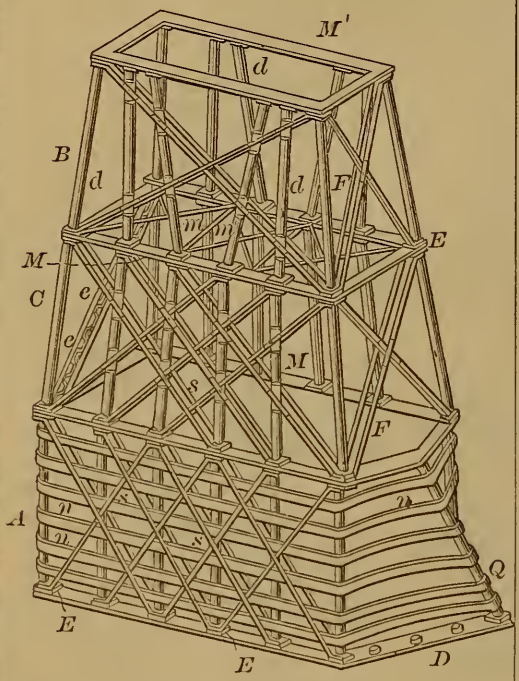


85176—J. Johnson—*Steam Heater.*

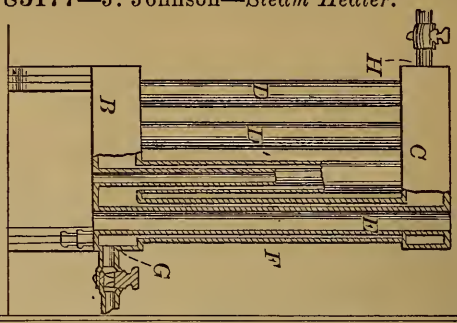


85171—E. M. Grant—*Bridge Pier.*

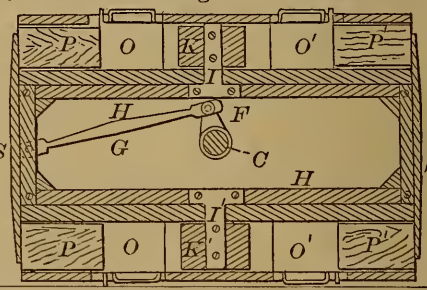




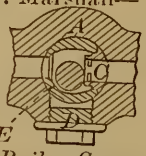
85177—J. Johnson—*Steam Heater.*



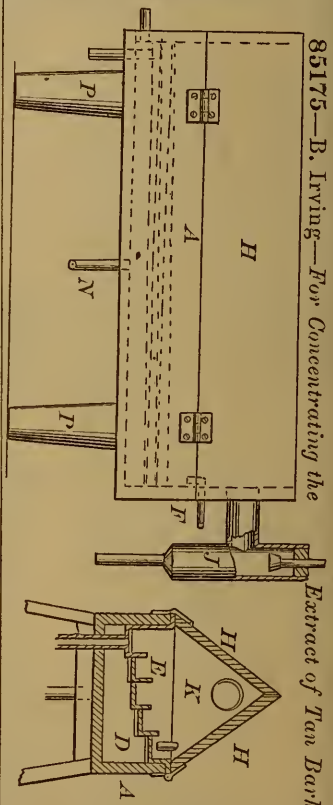
85178—Z. Ludington—*Peat Machine.*



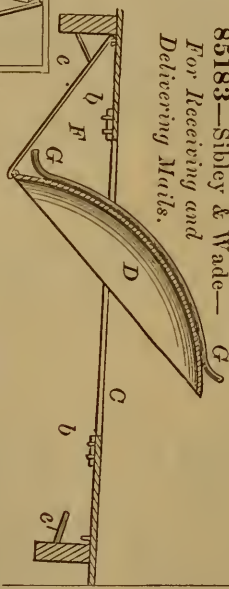
85179—J. Marshall—*Boiler Gauge.*



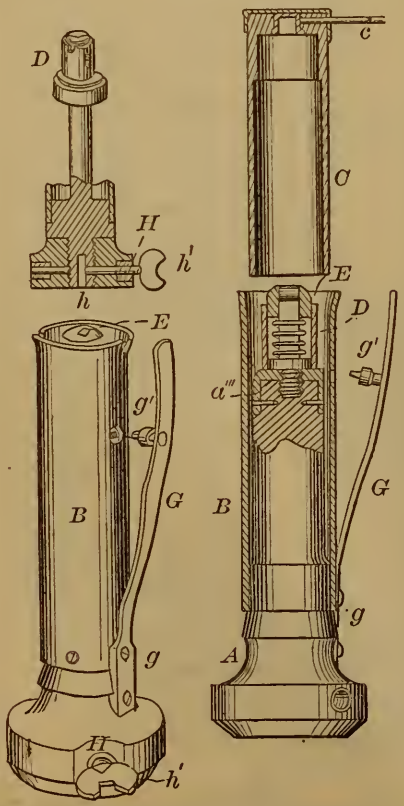
85175—B. Irving—*For Concentrating the Extract of Tan Bark.*



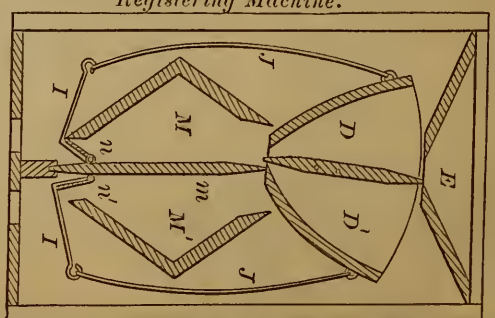
85183—Sibley & Wade—*For Receiving and Delivering Mails.*



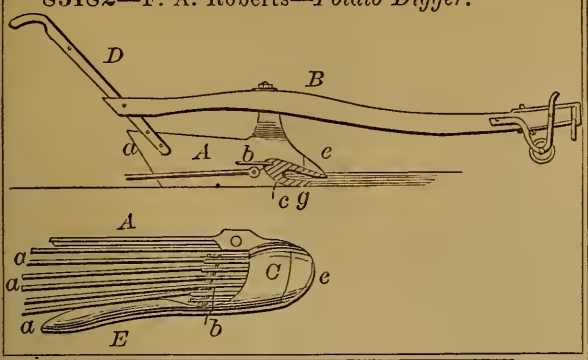
85180—P. Powell—*Cartridge Charger.*



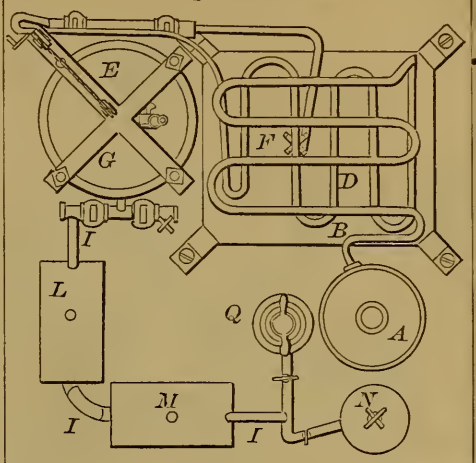
85181—L. Reynolds—*Grain Weighing and Registering Machine.*



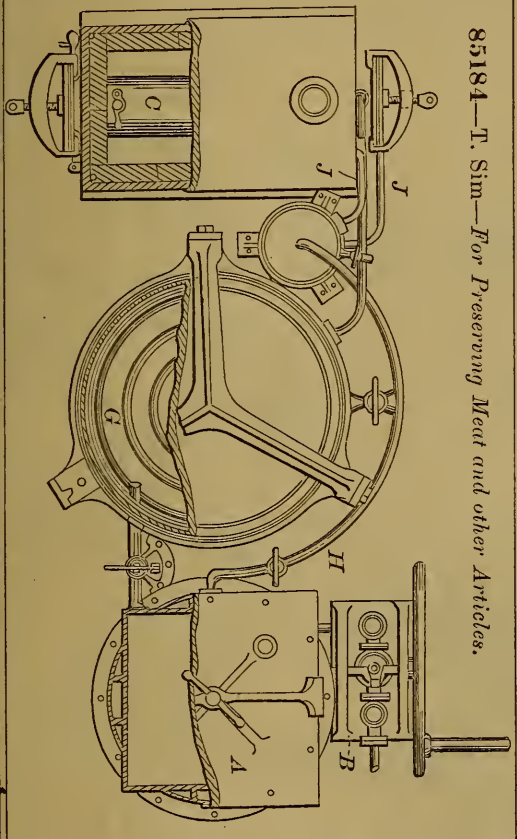
85182—F. A. Roberts—*Potato Digger.*



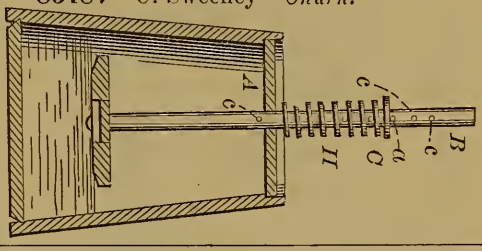
85185—J. D. Spang—*Gas Machine.*



85184—T. Sim—*For Preserving Meat and other Articles.*

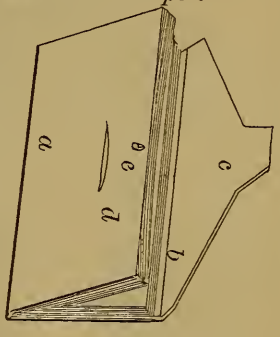


85187—C. Sweeney—*Churn.*

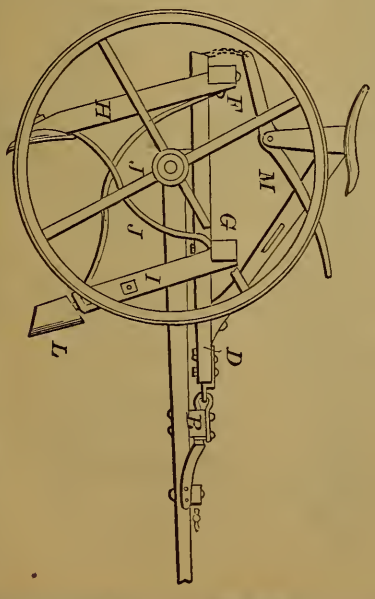


85186—P. J. Stoll—*Hitching Strap Buckle.*

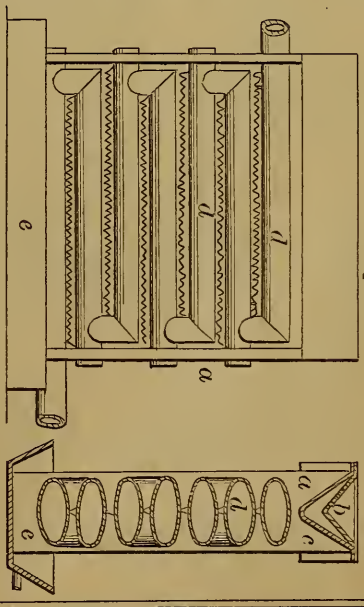
85188—G. W. Thompson—*Medicated Paper.*



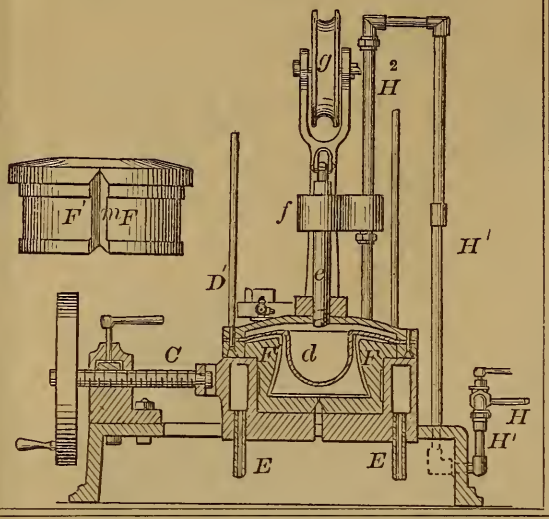
85189—D. W. Travis—*Cultivator.*



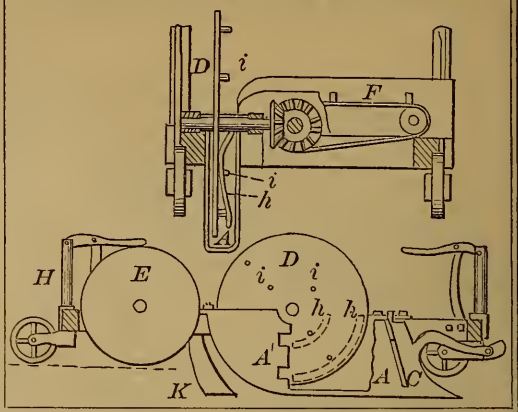
85190—G. B. Turrell—*Cooler for Beer and other Liquids.*



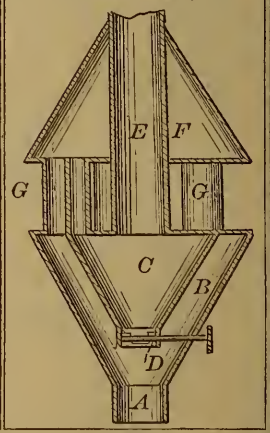
85191—J. E. Ward—*Mould for Forming Hats.*



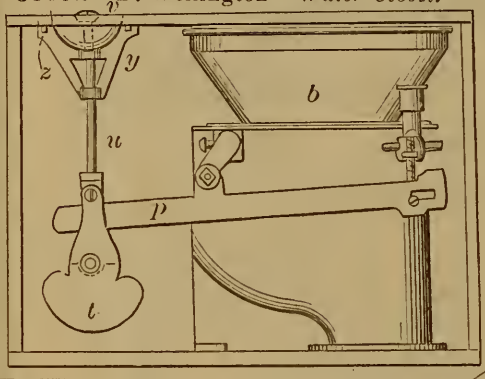
85195—W. Young—*Hedge Planter.*

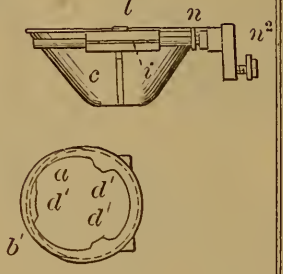


85196—J. Adams—*Stove Drum.*

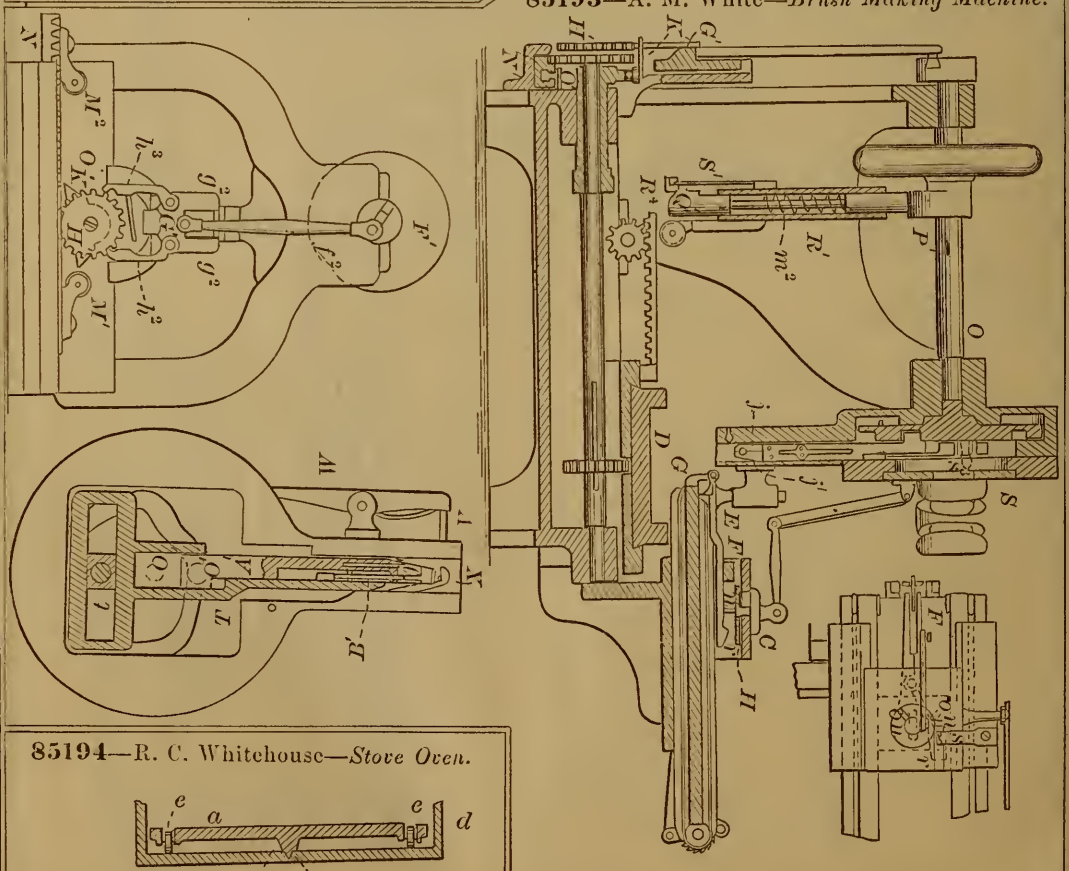


85192—D. Wellington—*Water Closet.*

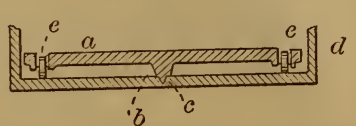




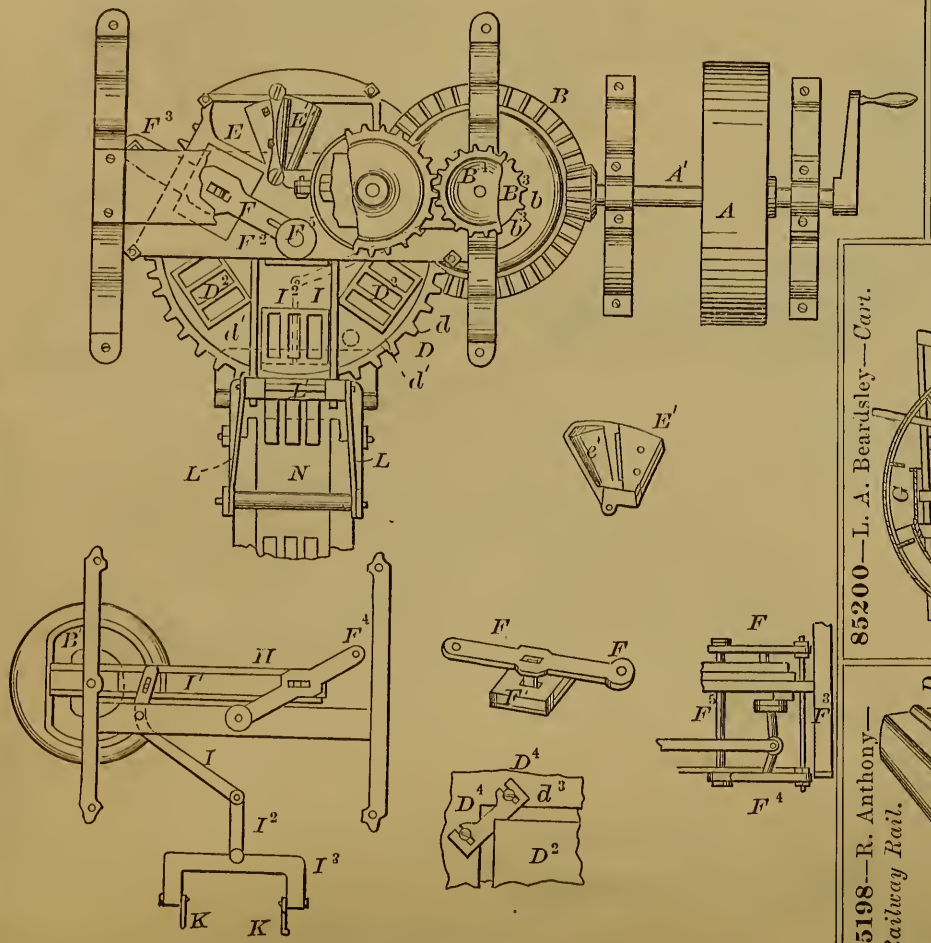
85193—A. M. White—*Brush Making Machine.*



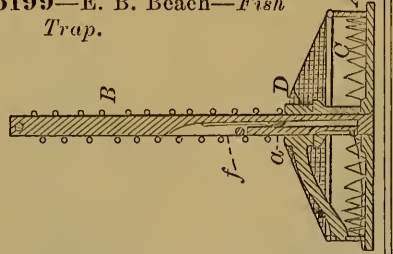
85194—R. C. Whitehouse—*Stove Oven.*



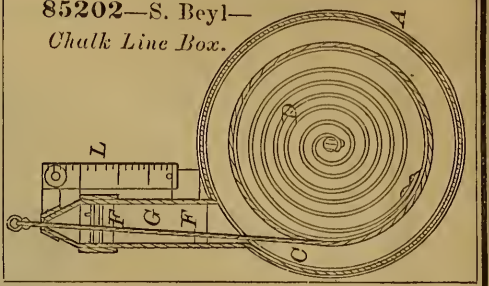
85197—H. Aiken—*Brick Machine.*



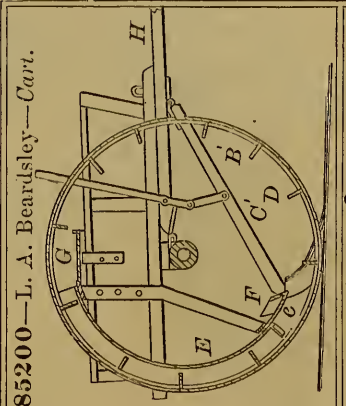
85199—E. B. Beach—*Fish Trap.*



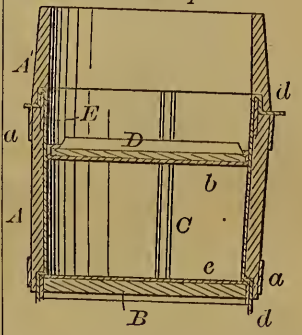
85202—S. Beyl—*Chalk Line Box.*



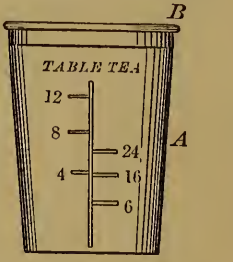
85200—L. A. Beardsley—*Cart.*

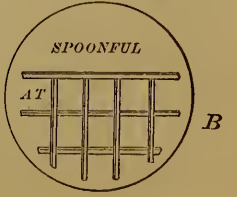


85201—A. F. Bent—*Cheese Hoop.*

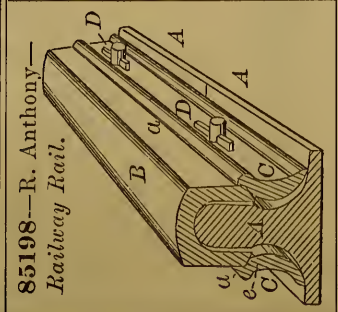


85203—T. G Boggs—*Medicine Glass.*

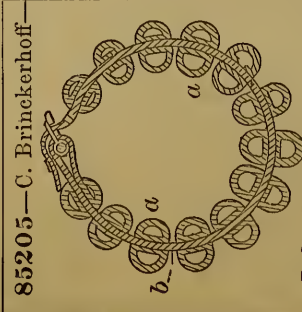




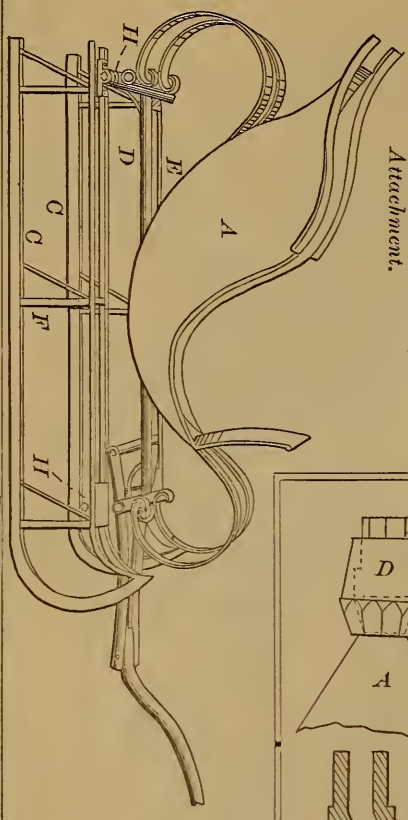
85198—R. Anthony—*Railway Rail.*



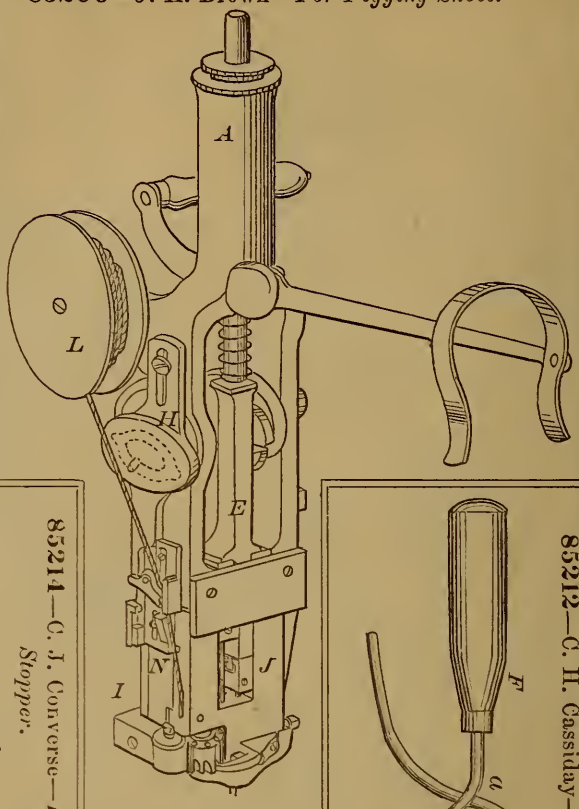
85205—C. Brinckerhoff—*India Rubber Fender for Interfering Horses.*



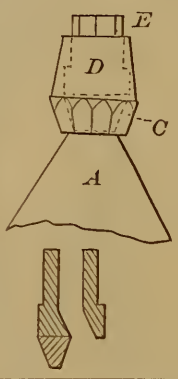
85204—C. F. Brigham—*Carriage Attachment.*



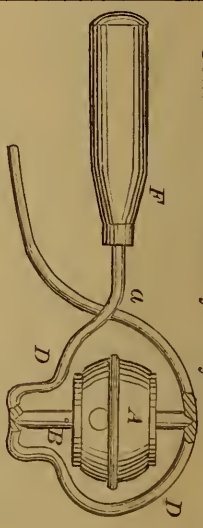
85206—J. H. Brown—*For Pegging Shoes.*



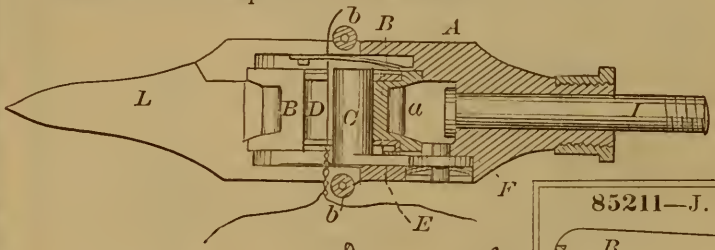
85214—C. J. Converse—*Bottle Stopper.*



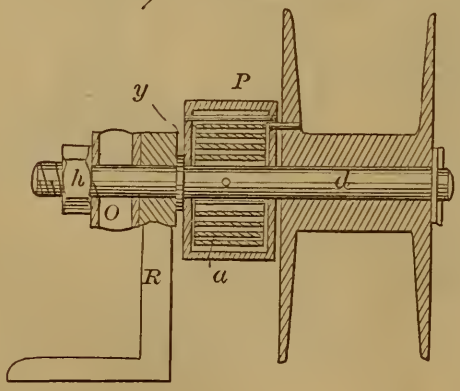
85212—C. H. Cassiday—*Toy.*



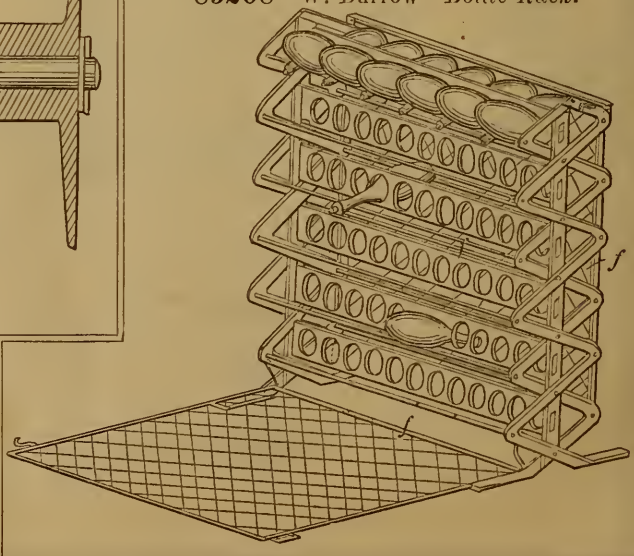
85209—S. D. Carpenter—*Grain Binder.*



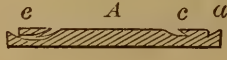
85211—J. Carreer—*Pocket Cutlery.*



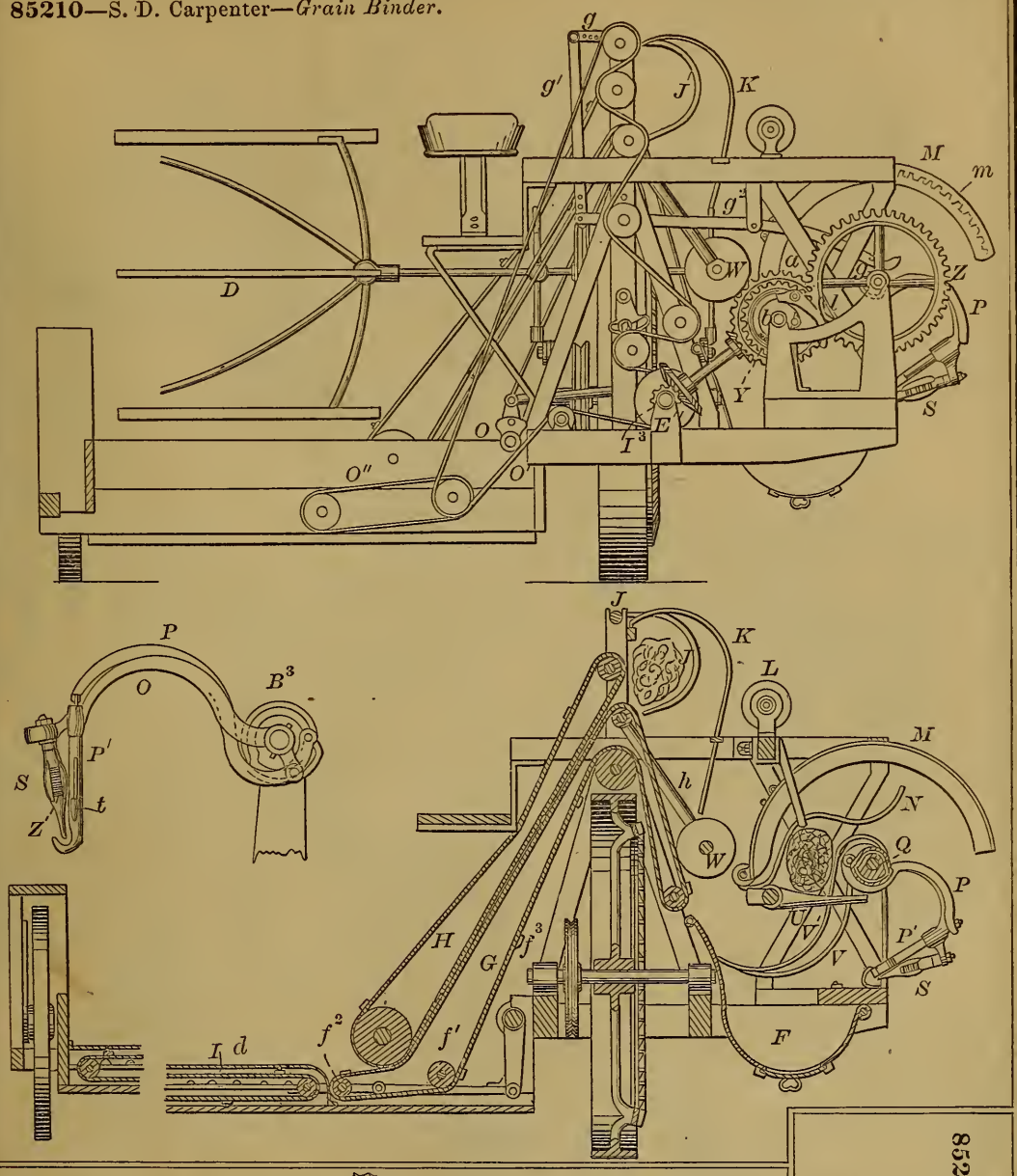
85208—W. Burrow—*Bottle Rack.*



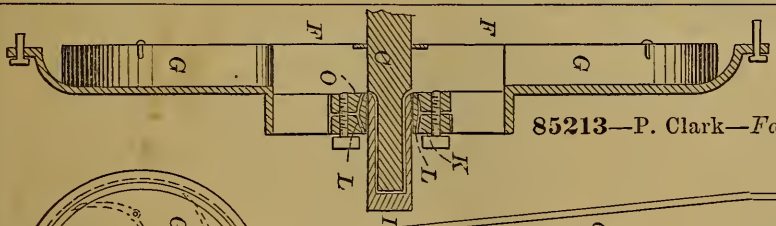
85207—J. H. Brown—*Sole for Boots and Shoes.*



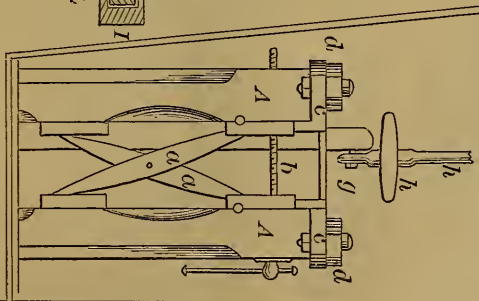
85210—S. D. Carpenter—*Grain Binder.*



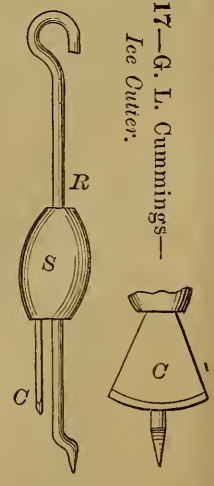
85213—P. Clark—*Fan.*



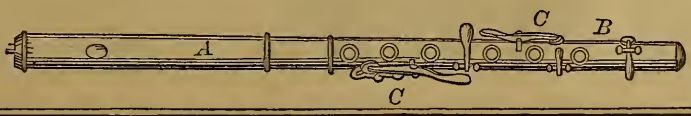
85215—H. Culver—*Upsetting Machine.*



85217—G. L. Cummings—*Ice Cutter.*



85222—W. Fischer—*Musical Instrument.*



85218—Damon & Lyford—*Name Plate and Letter Chute.*

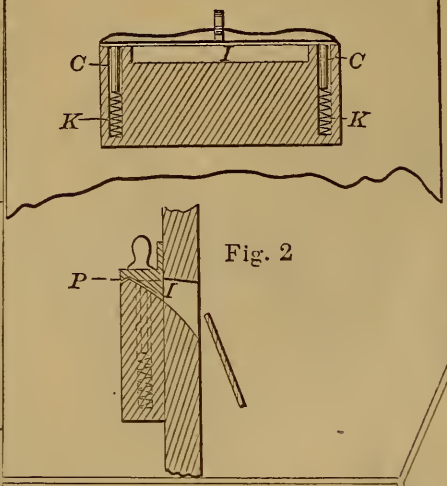
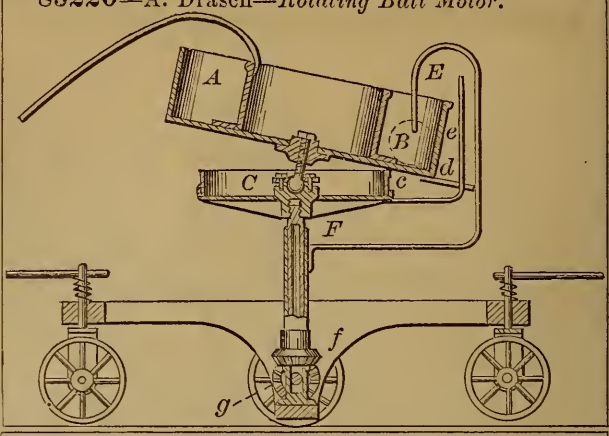
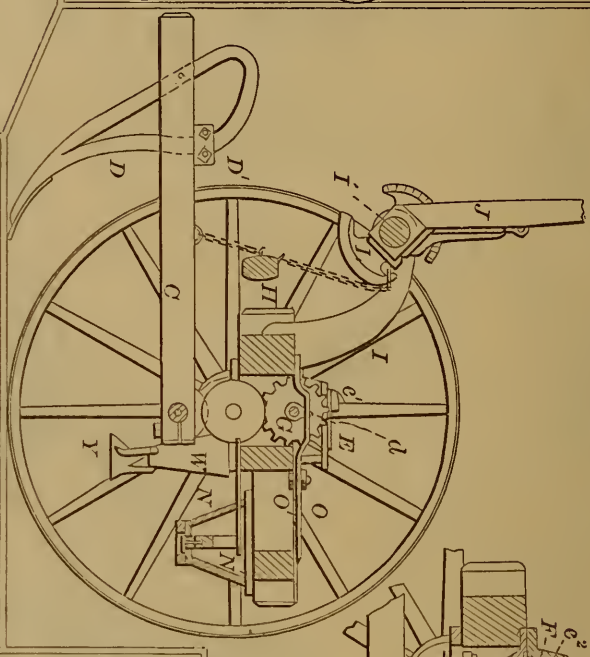


Fig. 2

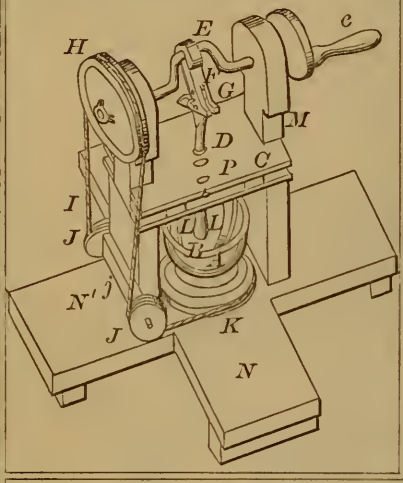
85220—A. Drasch—*Rotating Ball Motor.*



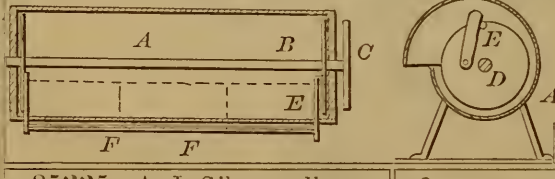
85221—G. Esterly—*Seeding Machine.*

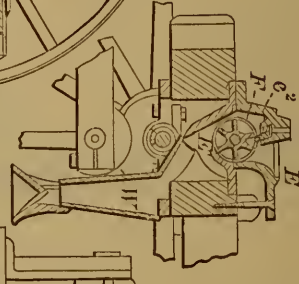


85223—J A. Fremon—*Mortar.*

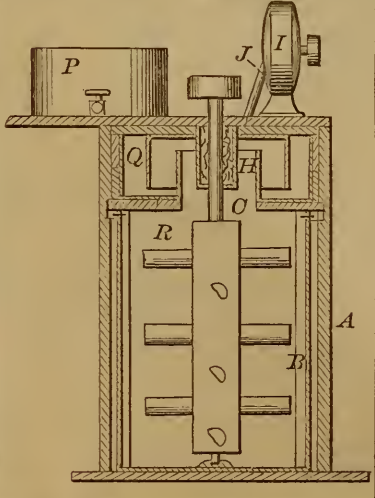


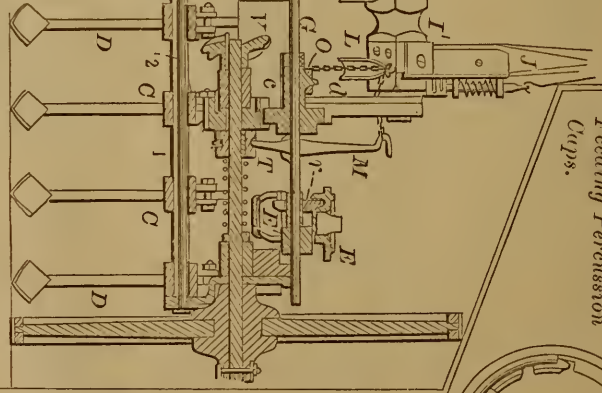
85219—Dexter & Gledhill—*Wool Oiling Machine.*



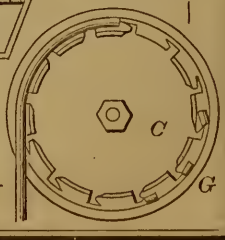


85225—A. J. Gibson—*For Purifying and Ageing Liquors.*

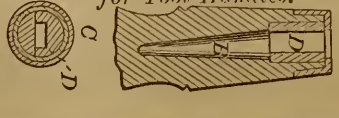




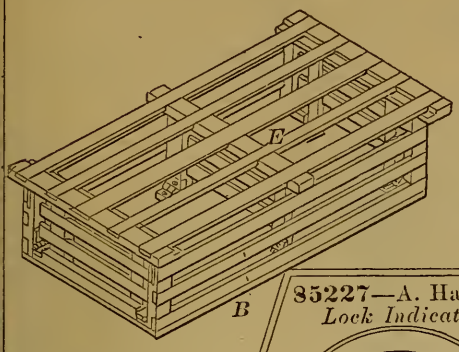
85224—A. J. French—*Feeding Percussion Caps.*



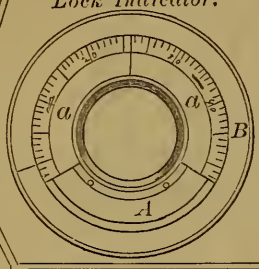
85230—A. C. Kasson—*Bushing for Tool Handles.*

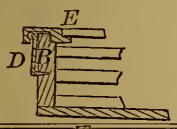


85226—J. Golder—*Poultry Coop.*

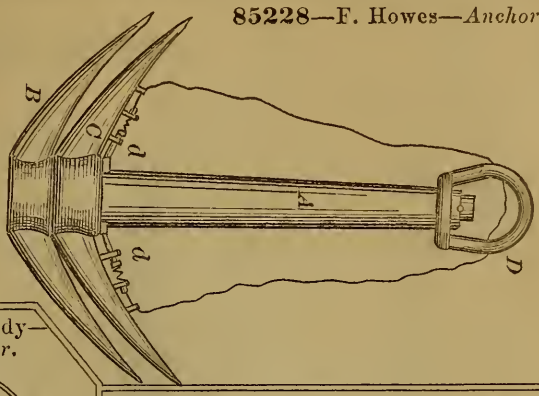


85227—A. Hardy—*Lock Indicator.*

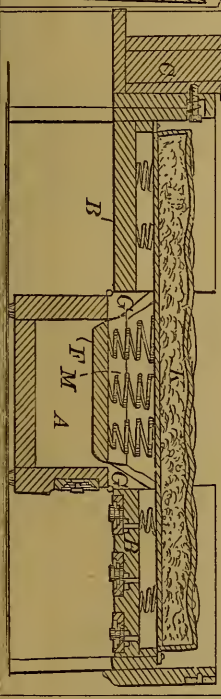




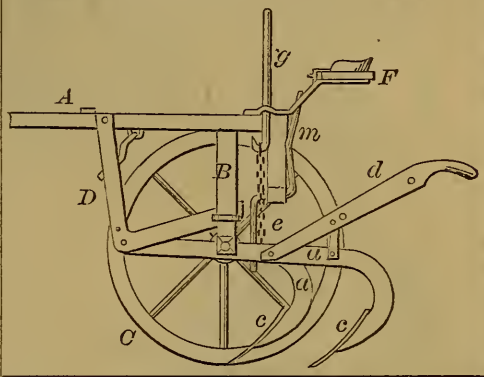
85228—F. Howes—*Anchor.*



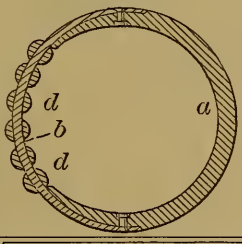
85232—D. B. Maynard—*Folding Bureau Bedstead.*



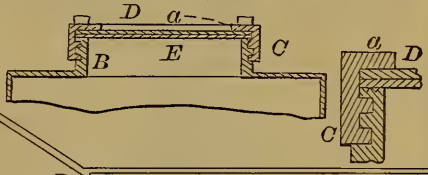
85233—L. D. McClintick—*Cultivator.*



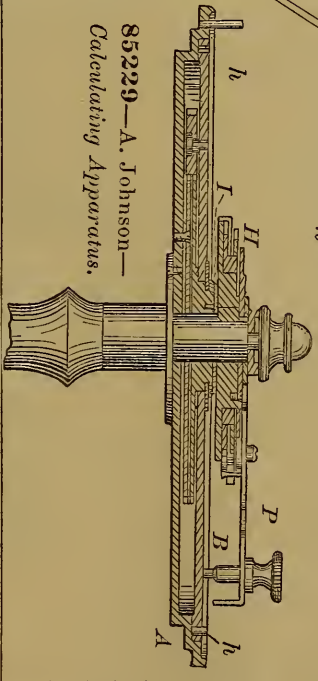
85234—W. McKay—*Mast Hoop.*

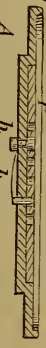


85236—G. H. Myers—*Fruit Jar.*

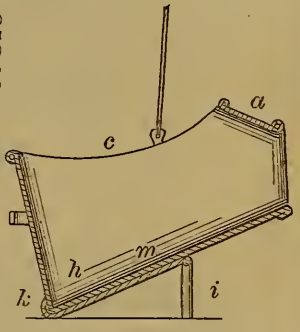


85229—A. Johnson—*Calculating Apparatus.*

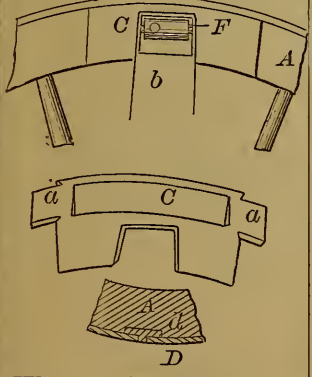




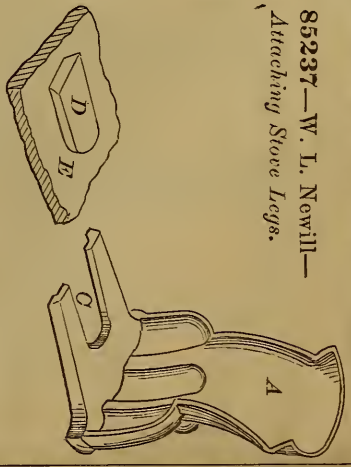
85240—J. T. Page—*Coal Scuttle.*



85235—A O. Morgan—*Tire Tightener.*

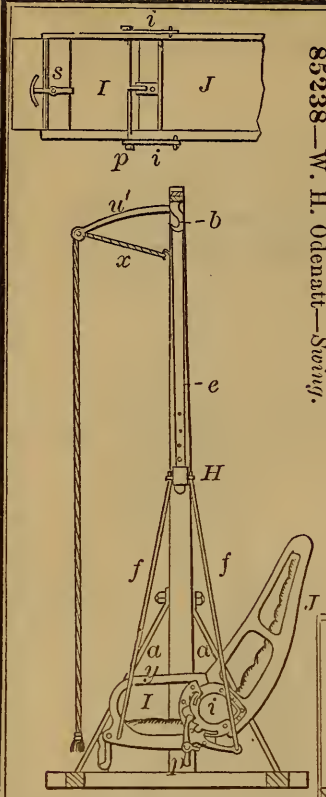


85237—W. L. Newill—*Attaching Stove Legs.*

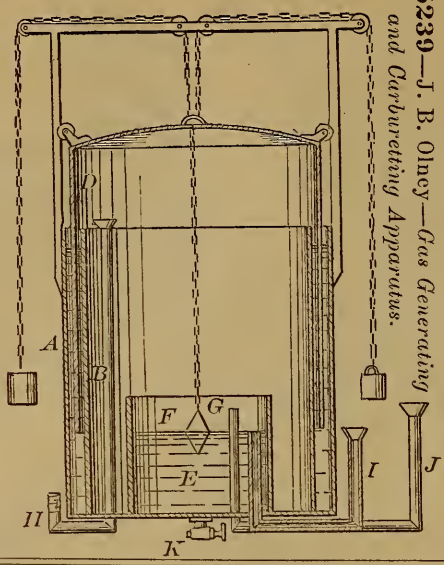


85244—R. Rowley—*Training Grape Vines.*

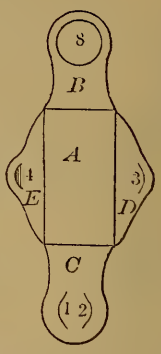
85238—W. H. Odenatt—*Swing.*



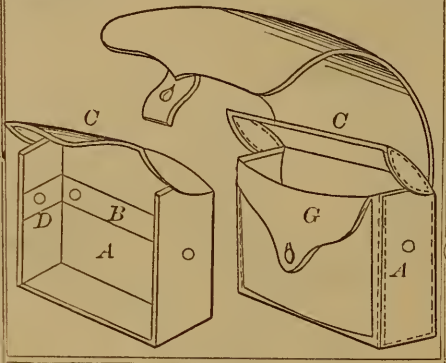
85239—J. B. Olney—*Gas Generating and Carburetting Apparatus.*



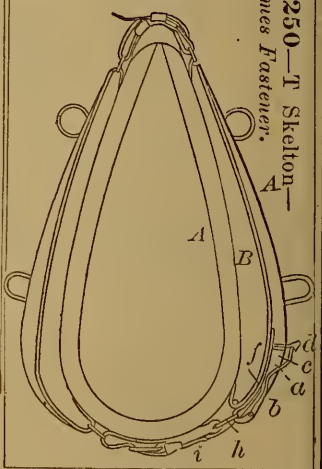
85253—G. W Starr—*Envelope.*



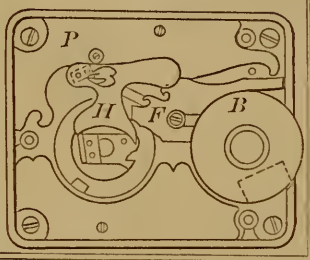
85241—H. E. Paine—*Cartridge Box.*



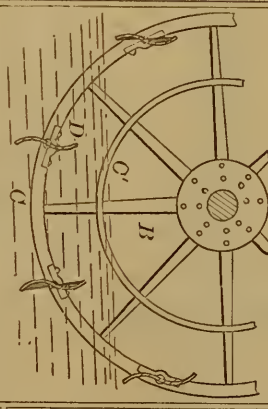
95250—T Skelton—*Hawes Fastener.*



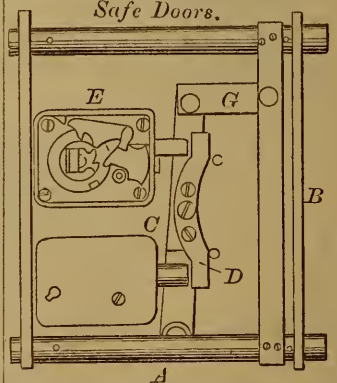
85245—J. Sargent—*Lock.*



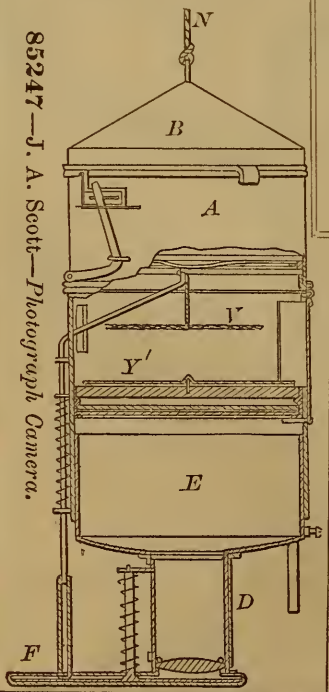
85248—C. Seymour—*Propelling Wheel.*



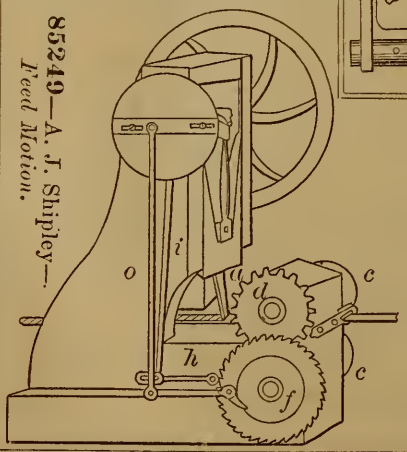
85246—J. Sargent—*Bolt for Safe Doors.*



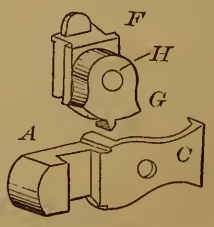
85247—J. A. Scott—*Photograph Camera.*



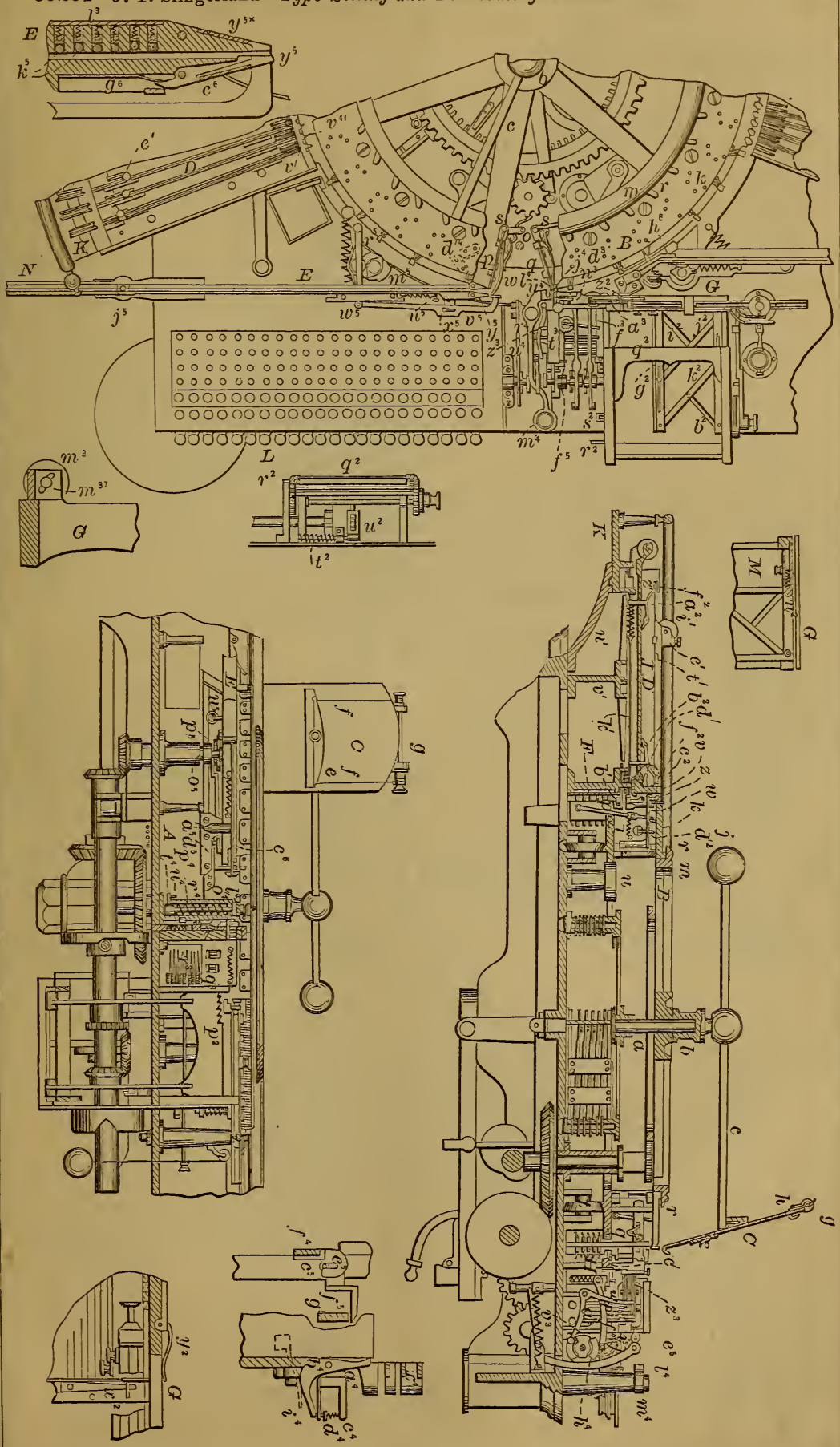
85249—A. J. Shipley—*Feed Motion.*



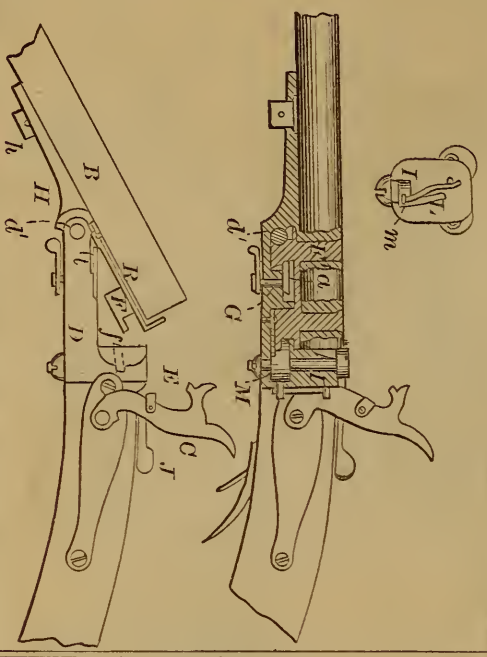
85243—J. O. Reilley—*Door Fastener.*



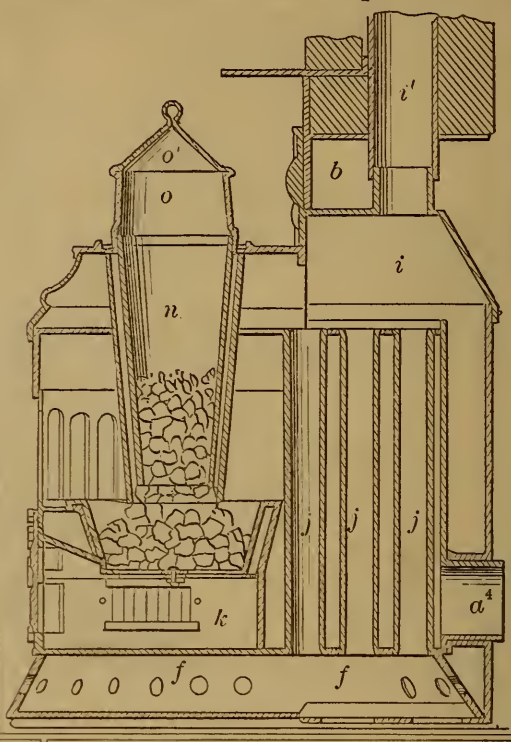
85251—J. T. Slingerland—*Type Setting and Distributing Machine.*



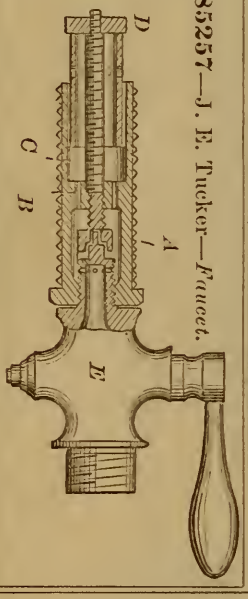
85252—C. E. Sneider—*Fire Arm.*



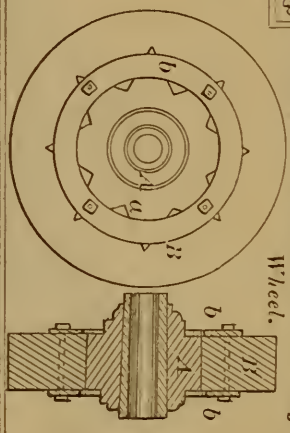
85255—J. M. Thatcher—*Fireplace Heater.*



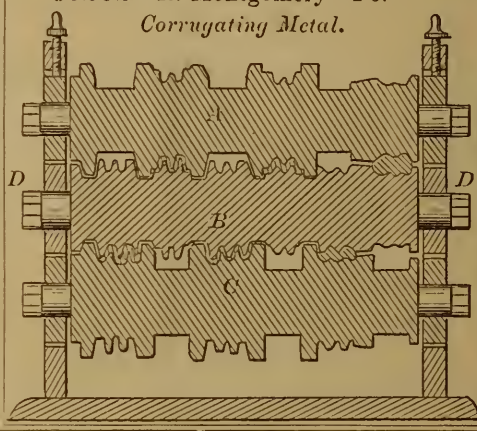
85257—J. E. Tucker—*Faucet.*



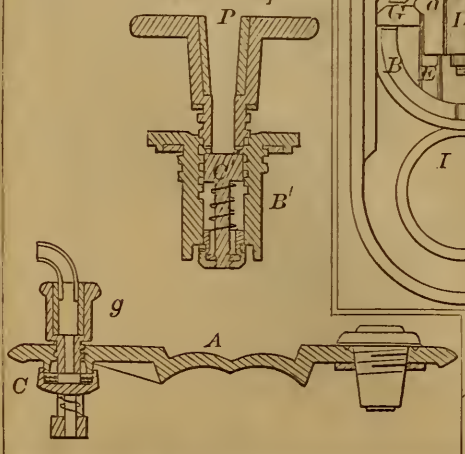
85256—S. W. H. Ward—*Carriage Wheel.*

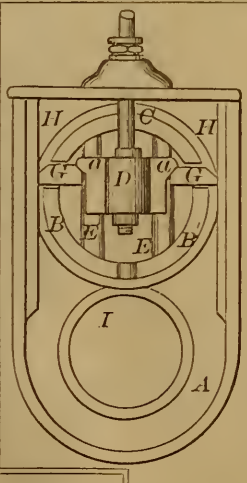


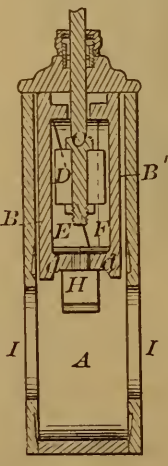
85262—R. Montgomery—*For Corrugating Metal.*



85260—Weaver & Allen—*Barrel Head and Tap.*

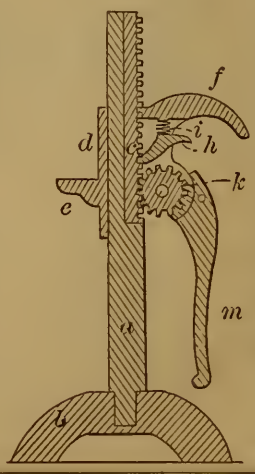




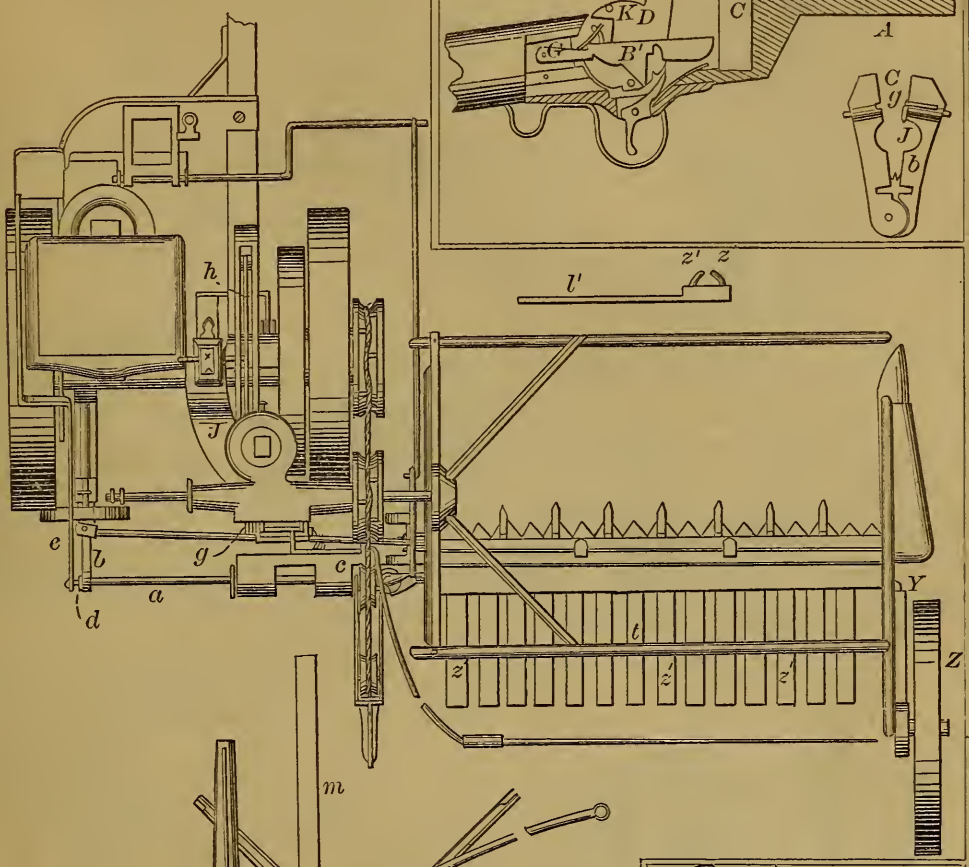


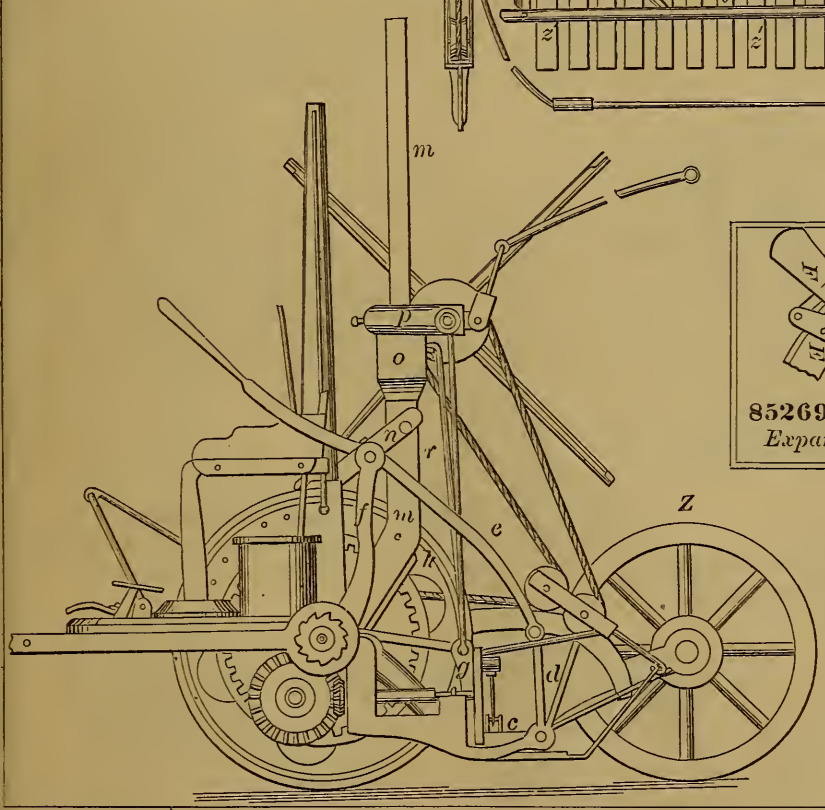
85263—H G. Ludlow—*Stop Valve for Steam Enginery.*

85264—W. F. Arnold—*Lifting Jack.*

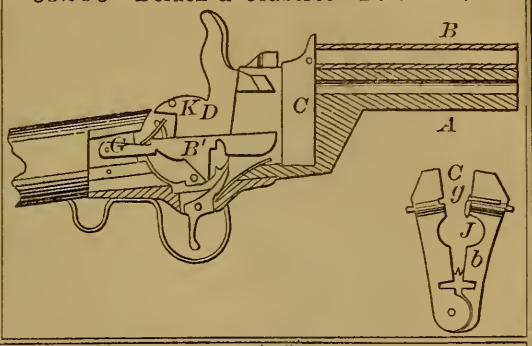


85254—G. W. Stewart—*Harvester.*

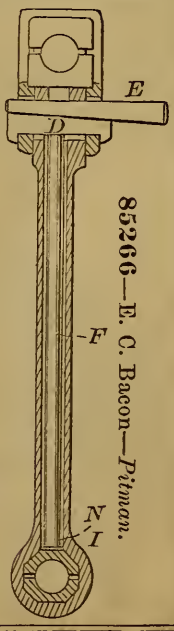




85268—Belden & Crabtree—*Fire Arm.*

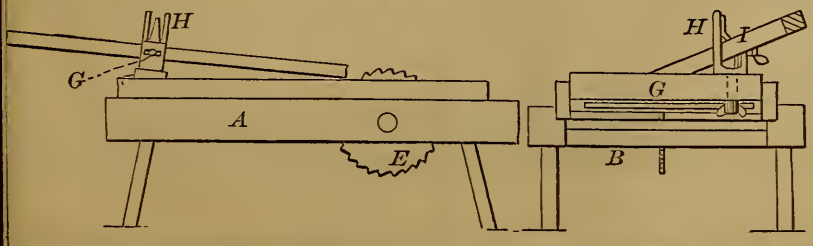


85269—Belden & Ford—*Expansion Wagon Wheel.*

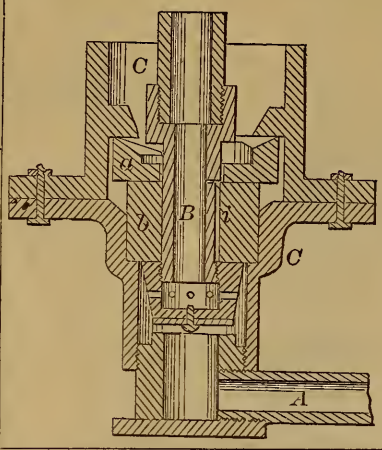


85266—E. C. Bacon—*Pitman.*

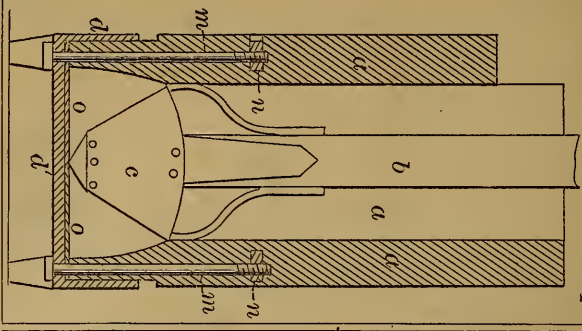
85265—J. Ayres—*For Sharpening Rails.*



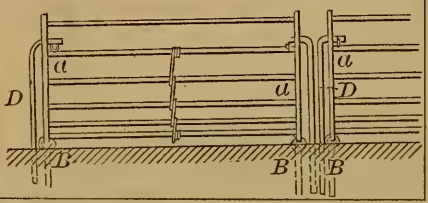
85267—H. J. Bailey—*Hydrant.*



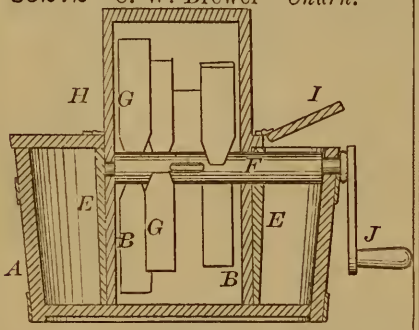
85270—S. Benson—*Pump.*



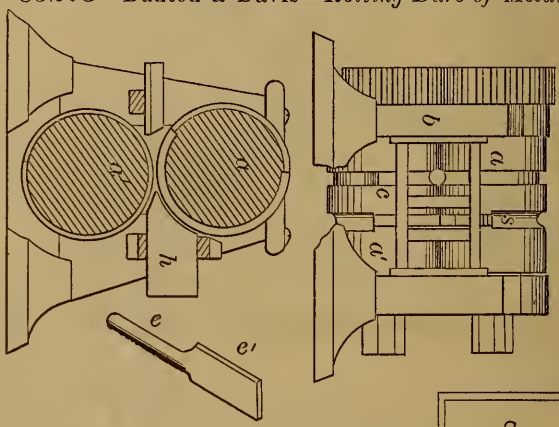
85271—D. P. Bird—*Flood Fence.*



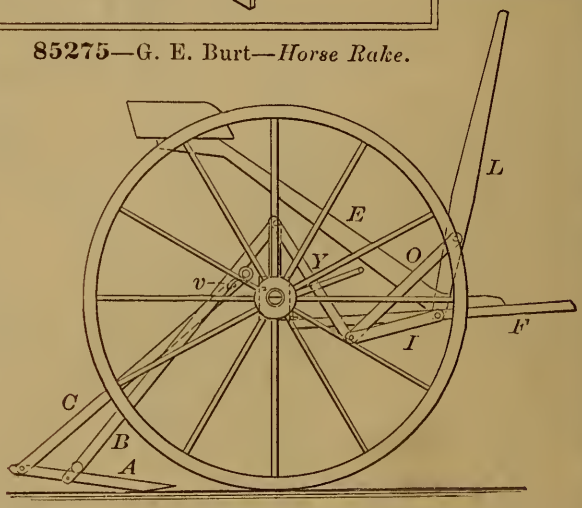
85272—C. W. Brewer—*Churn.*



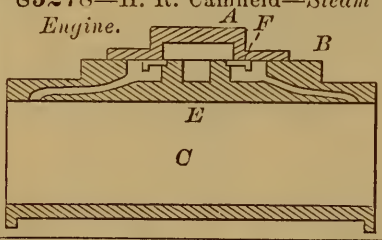
85273—Bunton & Davis—*Rolling Bars of Metal.*



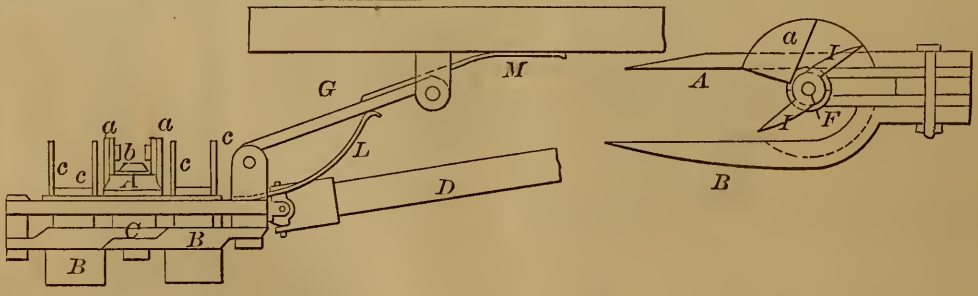
85275—G. E. Burt—*Horse Rake.*



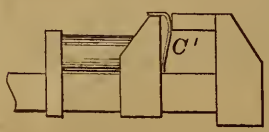
85278—H. R. Camfield—*Steam Engine.*

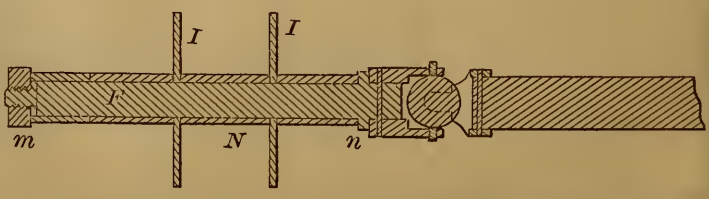


85274—G. E. Burt—*Harvester.*

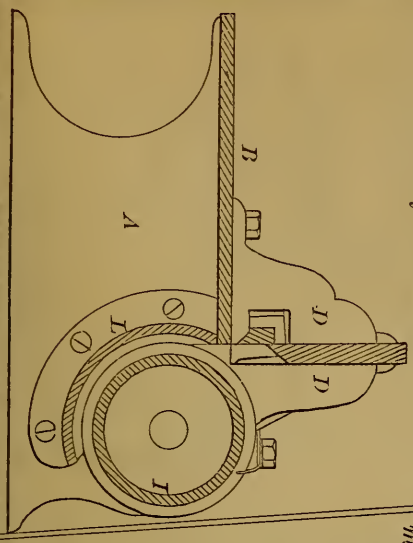


85276—J. Burt—*Wrench.*

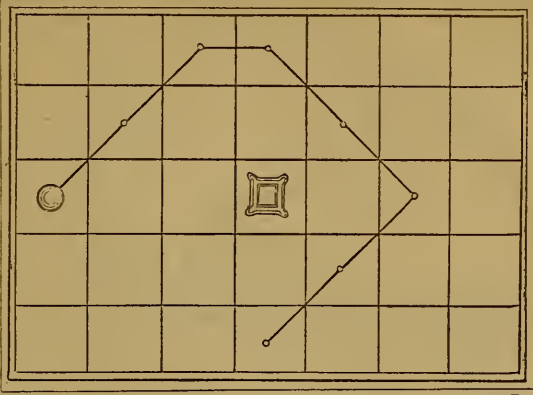




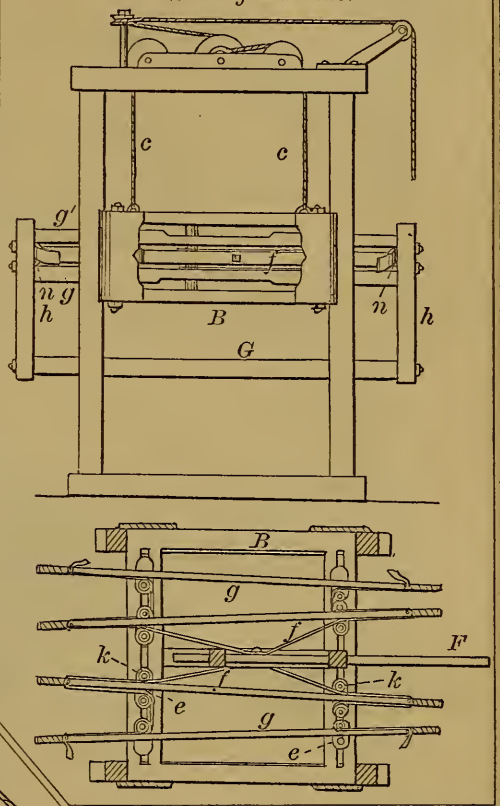
85277—T. Bushby—*Pill Machine.*



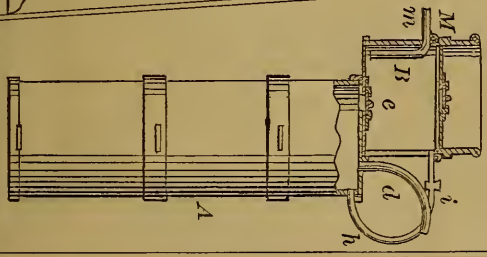
85281—J. Carlin—*Game.*



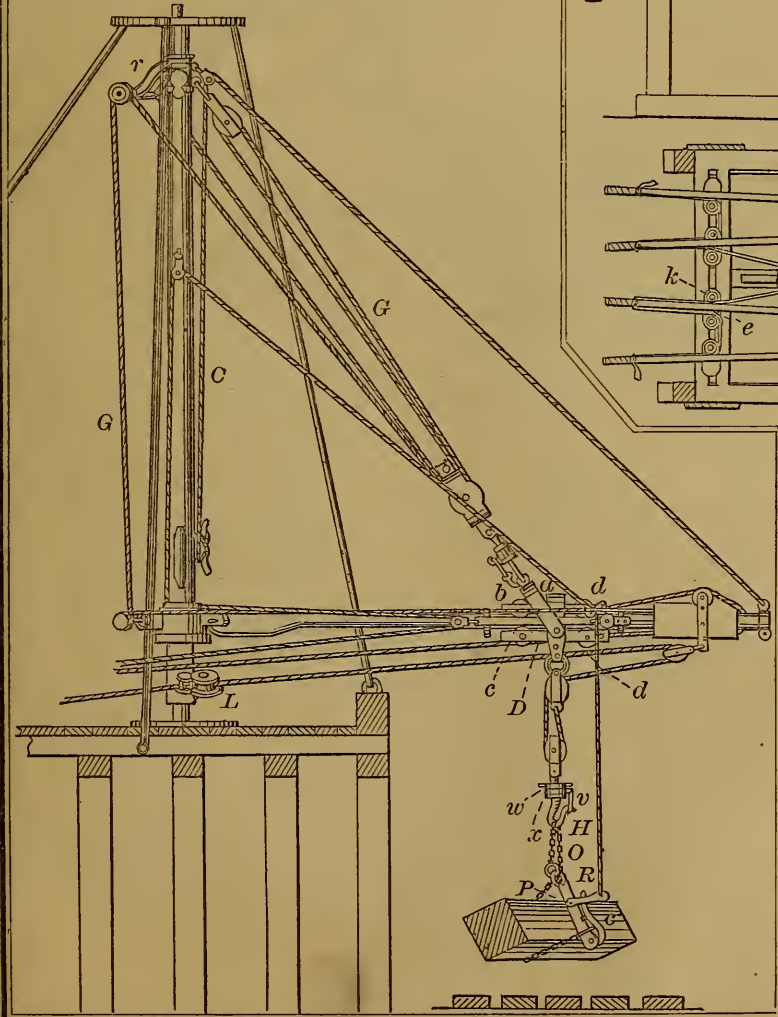
85280—Campbell & Stevens—*Marble Sawing Machine.*



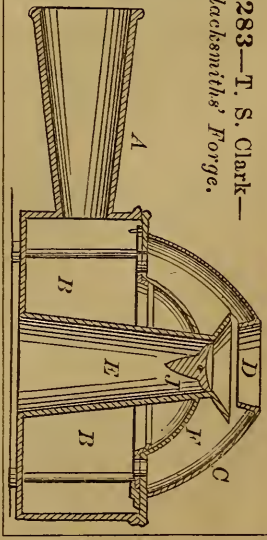
85286—W. Corfield—*Distilling Apparatus.*



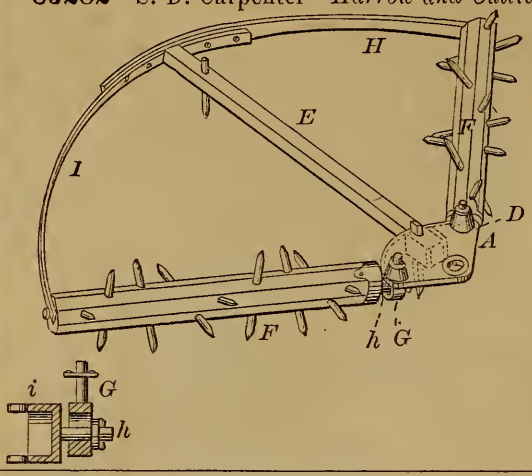
85279—A. Campbell—*Derrick.*



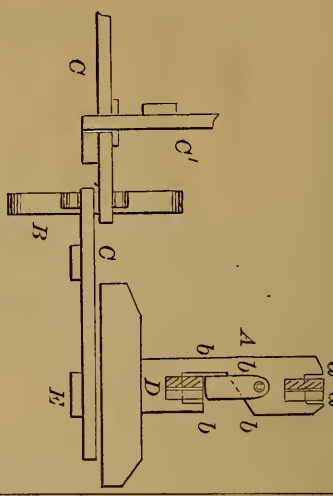
85283—T. S. Clark—*Blacksmiths' Forge.*



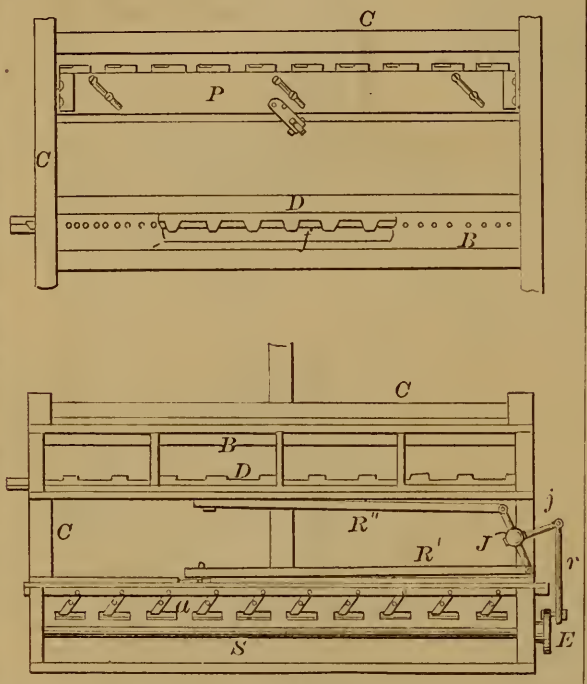
85282—S. D. Carpenter—*Harrow and Cultivator.*



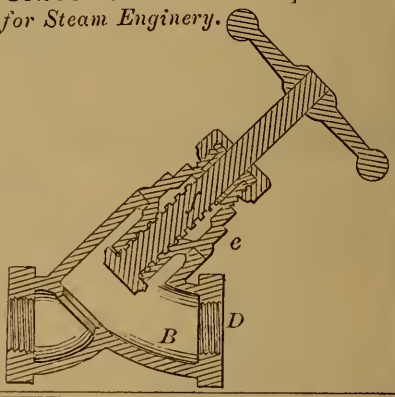
85285—Coolidge & Rollins—*Fence.*

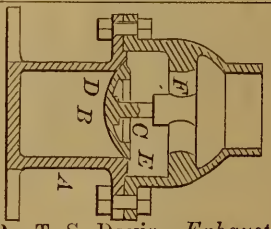


85284—E. H. Cook—*Seed Sower.*



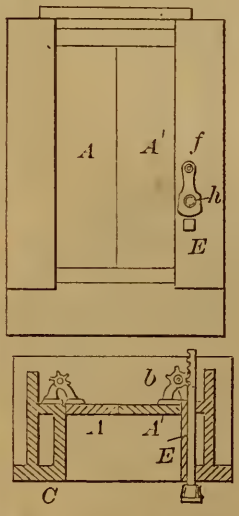
85288—J. H. Davis—*Stop Valve for Steam Enginery.*



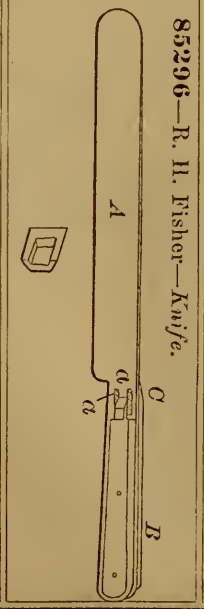


85289—T S. Davis—*Exhaust Valve.*

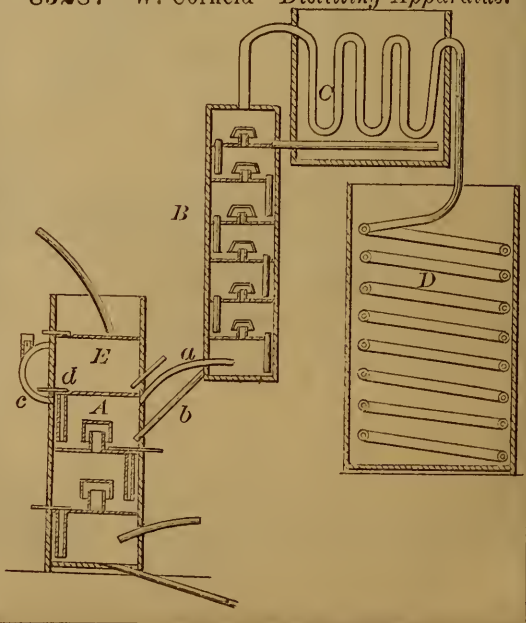
85290—Le G. Dodge—*Shutter Fastener.*



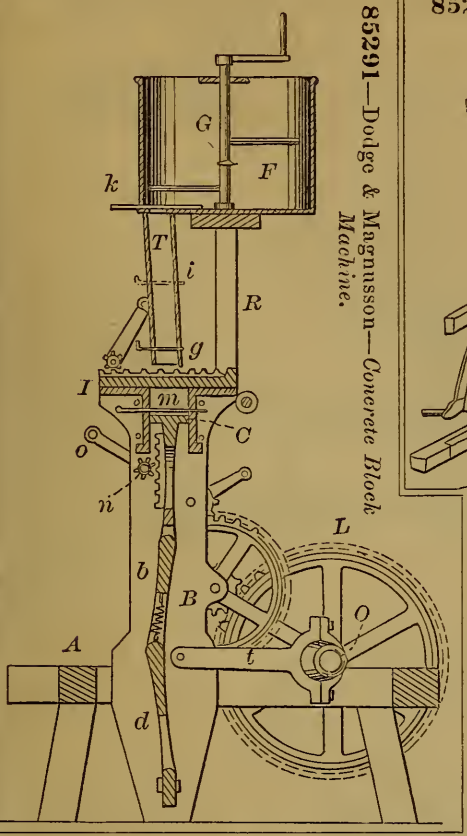
85296—R. H. Fisher—*Knife.*



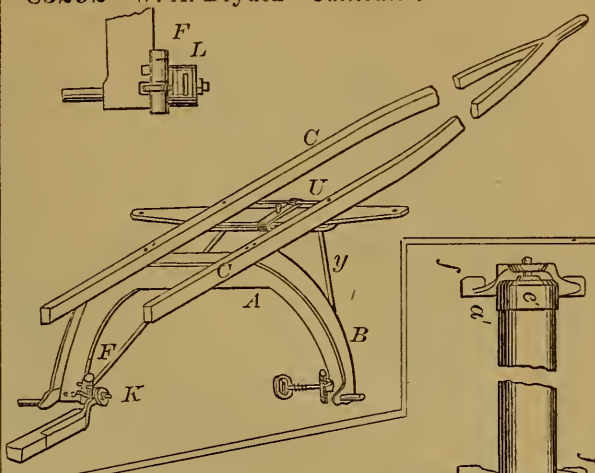
85287—W. Corfield—*Distilling Apparatus.*



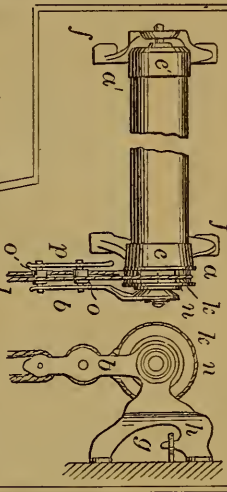
85291—Dodge & Magnusson—*Concrete Block Machine.*



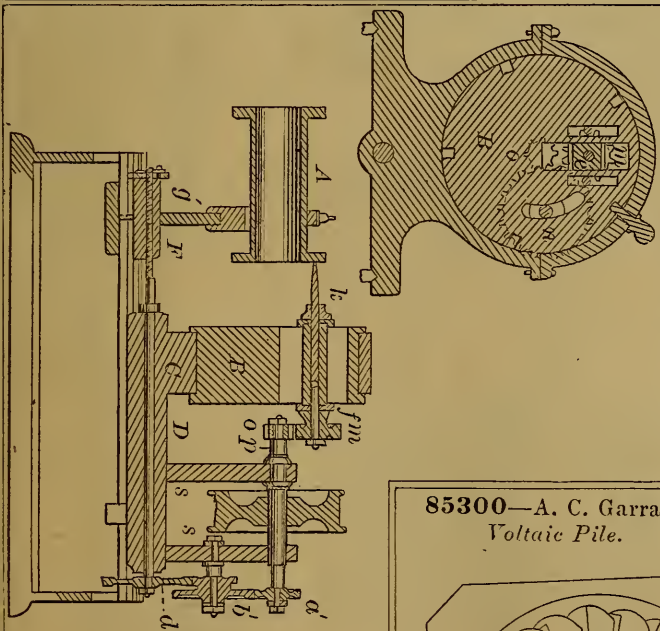
85292—W. A. Dryden—*Cultivator.*



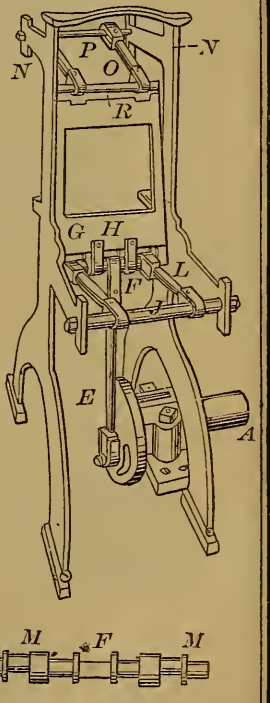
85295—H. Fininley—*Curtain Fixture.*



85293—H. S. Fairbanks—*For Drilling Flanges of Pipes and Cylinders.*

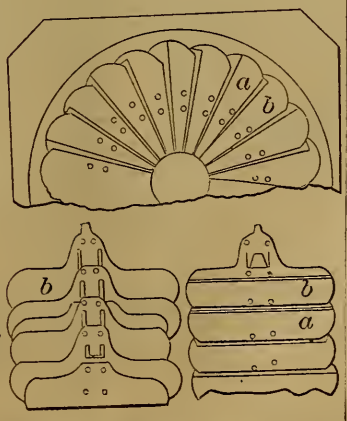


85294—A Fellker—*Hanging Saws.*

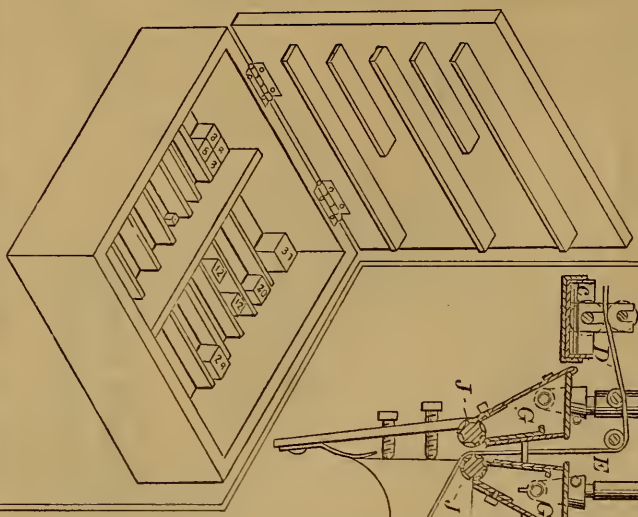


85298—D. P. Foster—*Suspending Clamp.*

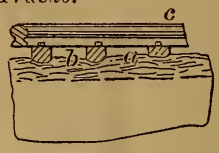
85300—A. C. Garratt—*Voltaic Pile.*



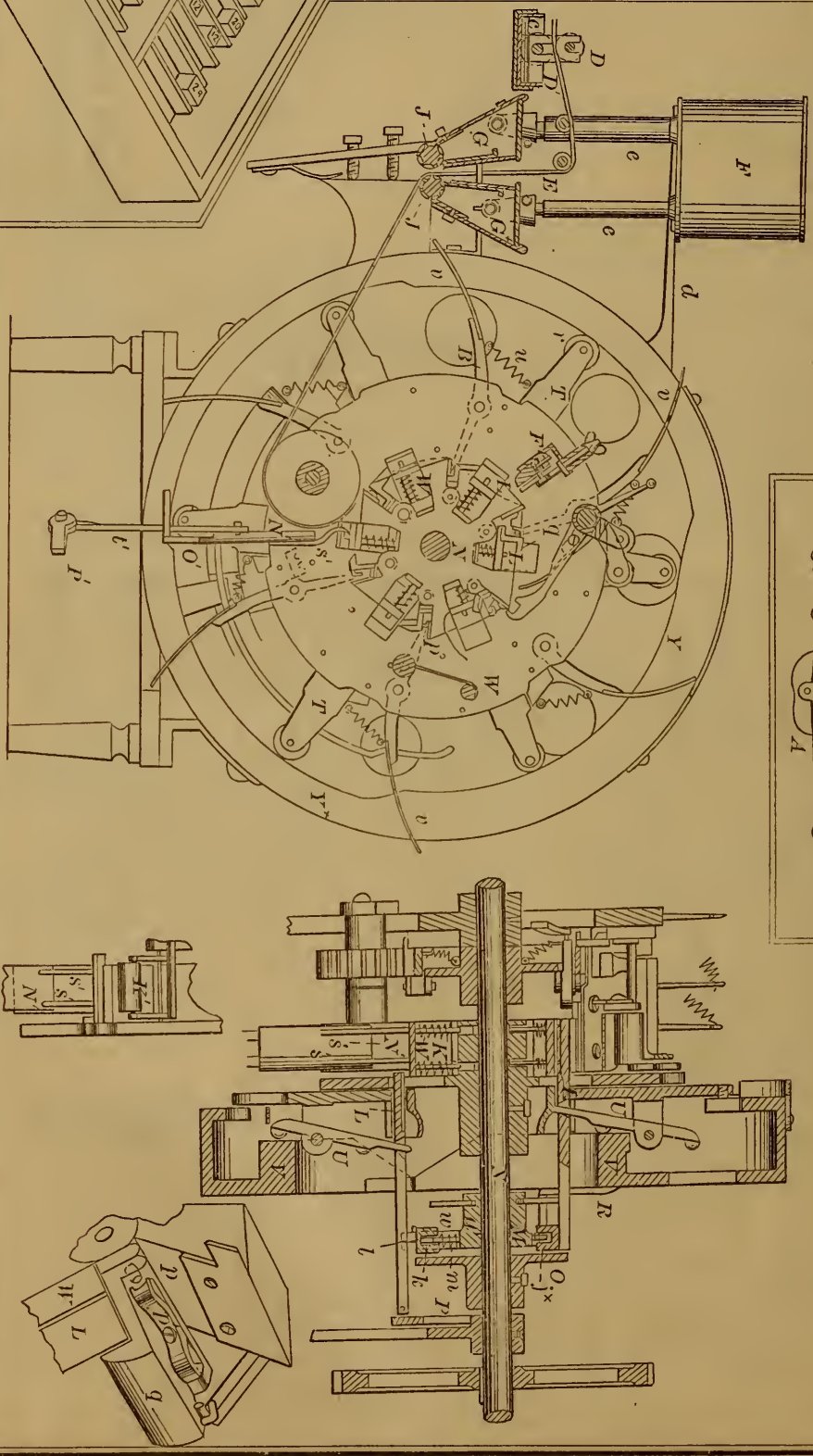
85299—S. M. Gaines—*Teaching the Rudiments of Chemistry*



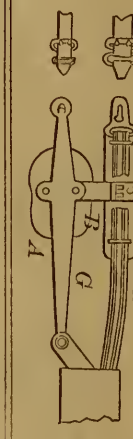
85304—J. E. Halsey—*Foundation for Railroad Tracks.*



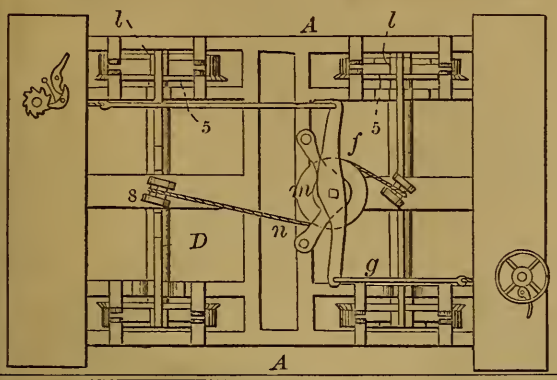
85301—Gates, Lloyd & Miller—*For Making Paper Boxes.*

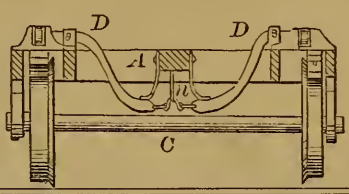


85305—E. B. Harding—*Truss.*

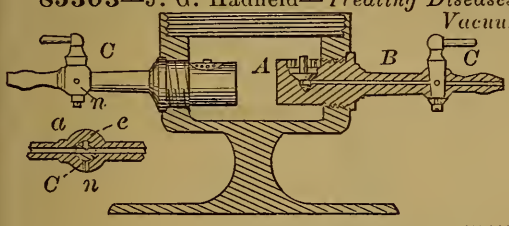


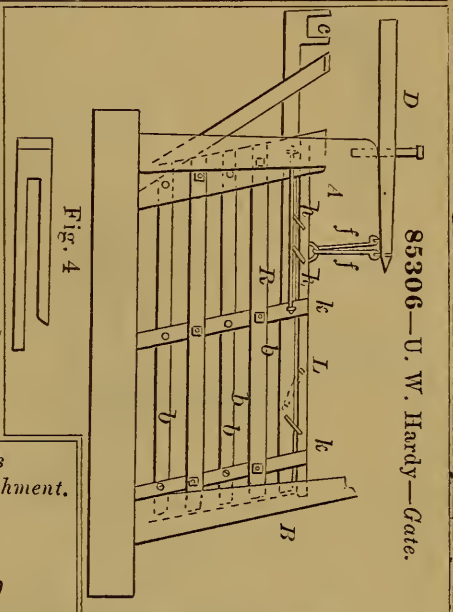
85302—J. T. Guthrie—*Railway Car Brake.*





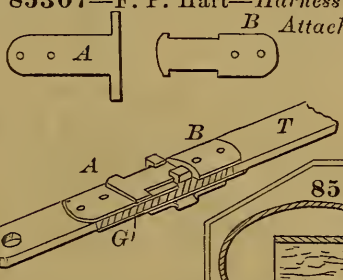
85303—J. G. Hadfield—*Treating Diseases by Vacuum.*

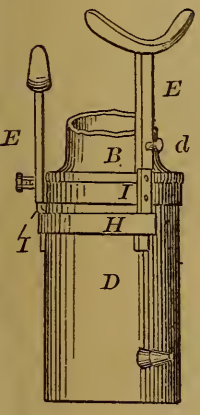




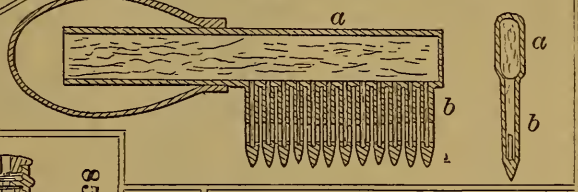
85306—U. W. Hardy—*Gate.*

85307—F. P. Hart—*Harness Attachment.*

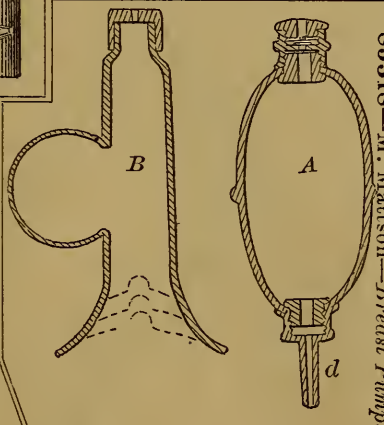




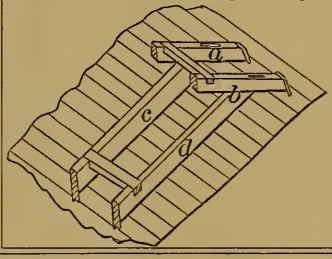
85311—Kerr & Robbins—*Fountain Comb.*



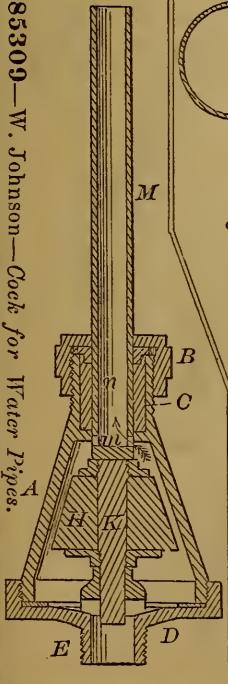
85318—M. Mattson—*Breast Pump.*



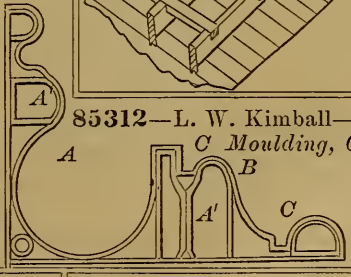
85314—J. E. Long—*Staging.*



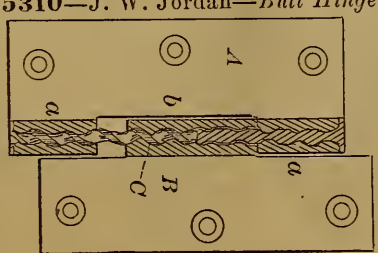
85309—W. Johnson—*Cock for Water Pipes.*



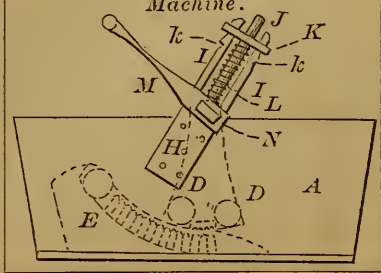
85312—L. W. Kimball—*Paper Moulding, Cornice, &c.*



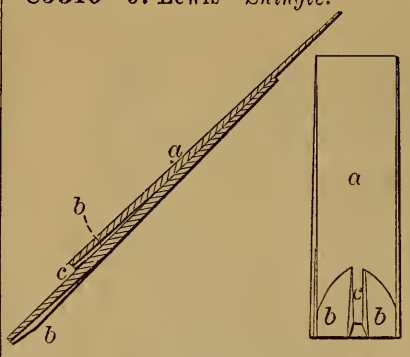
85310—J. W. Jordan—*Butt Hinge.*



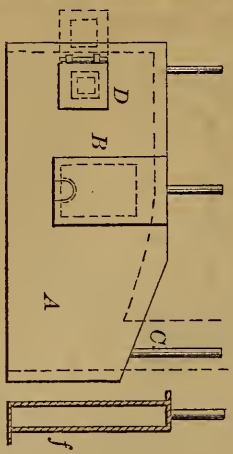
85315—J. Leib—*Washing Machine.*



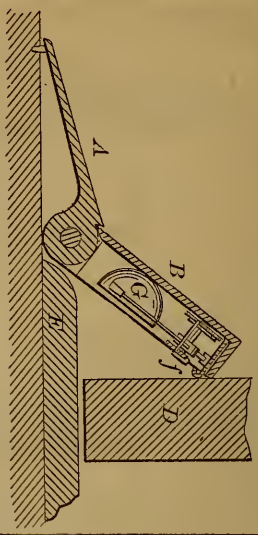
85316—J. Lewis—*Shingle.*



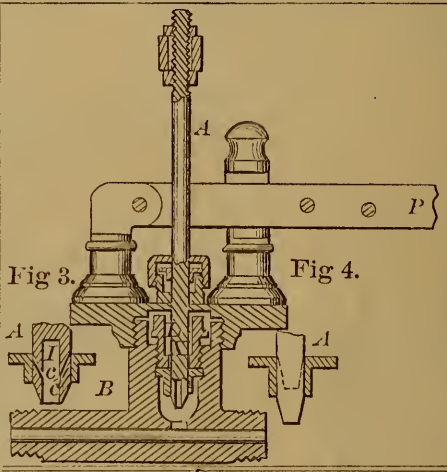
85320—H. McDonald—*Puddling Furnace.*



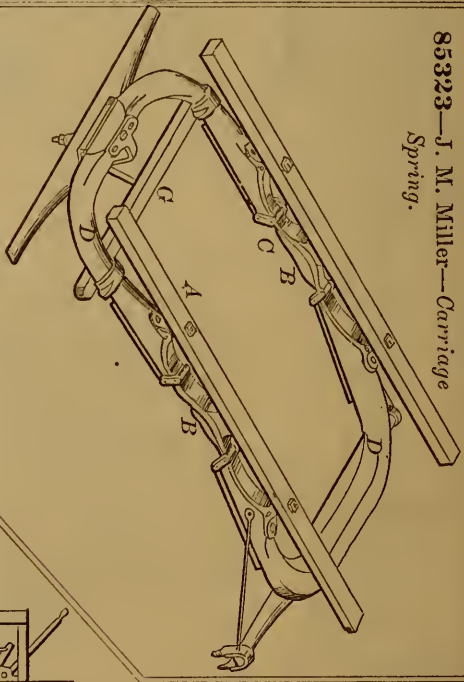
85321—McElroy & Holly—*Door Fastener.*



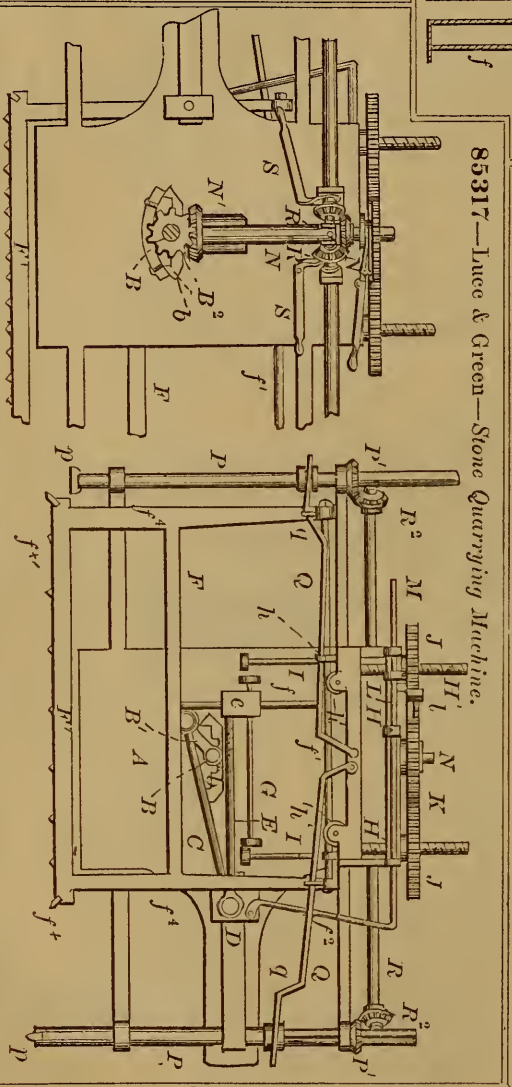
85322—T. J. McGowan—*Hydraulic Pressure Regulator.*



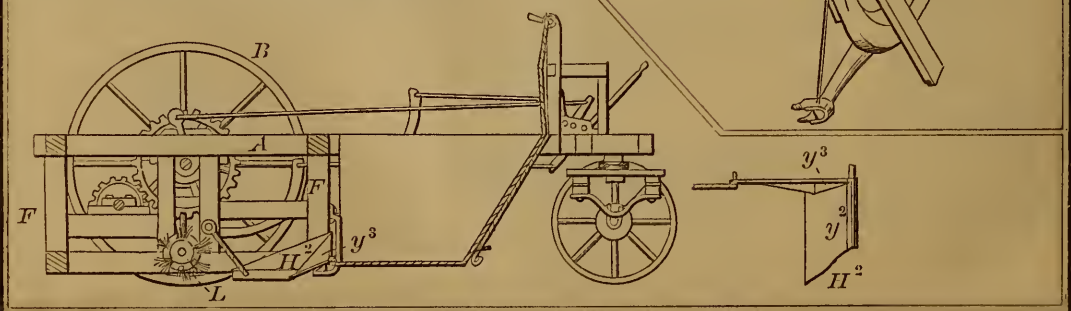
85323—J. M. Miller—*Carriage Spring.*



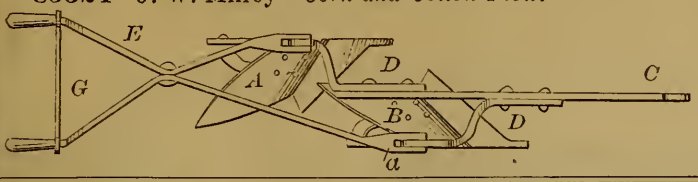
85317—Luce & Green—*Stone Quarrying Machine.*



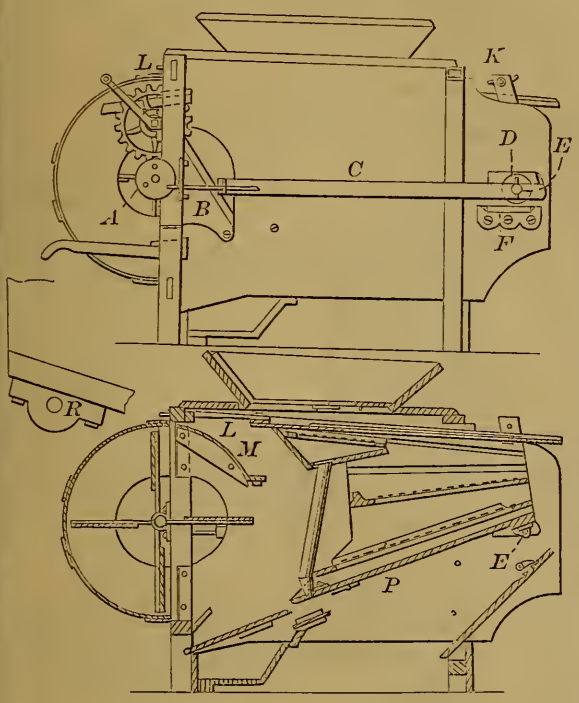
85319—McConnell & Pringle—*Street Sweeper.*

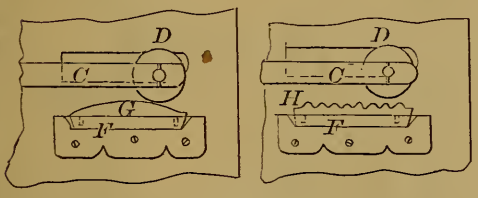


85324—J. W. Milroy—*Corn and Cotton Plow.*

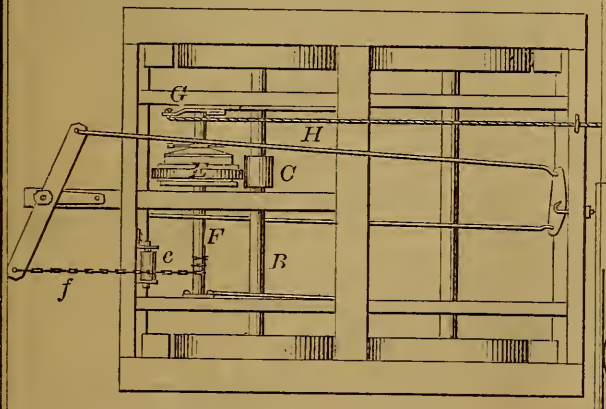


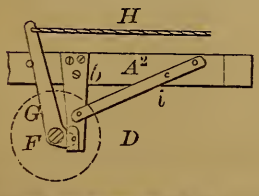
85325—J. Montgomery—*Grain Cleaner.*



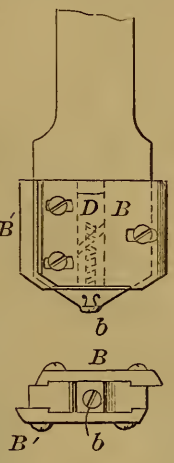


85326—Moore & Gray—*Car Brake.*

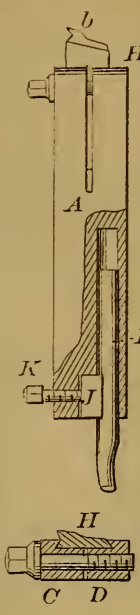




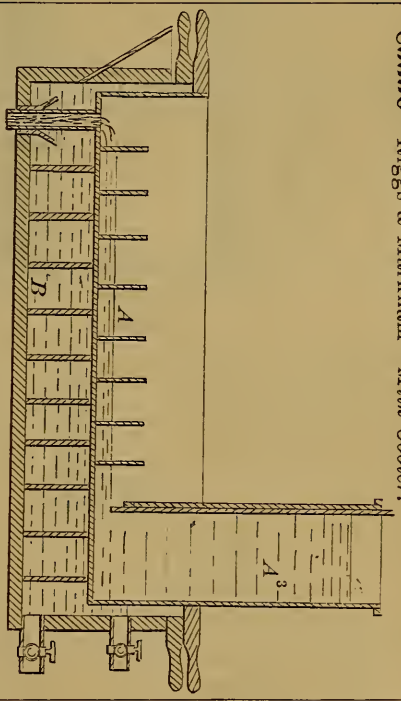
85334—J. L. Sayles—*Expanding Drill.*



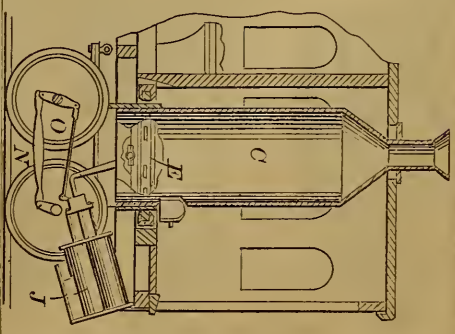
85329—C. H. Reid—*Tool Holder.*



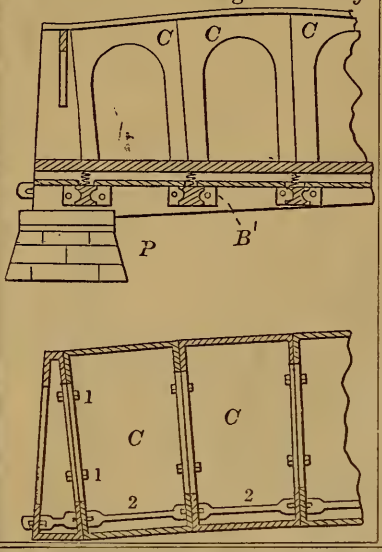
85330—Riggs & Markham—*Milk Cooler.*



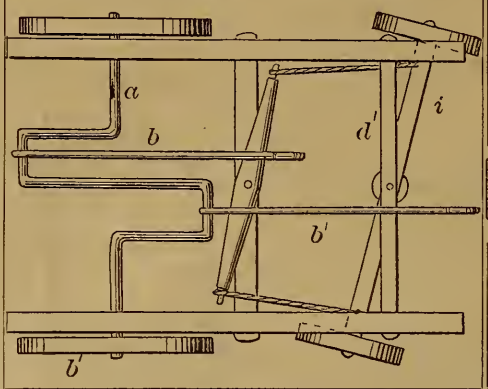
85331—Robinson & Clark—*Steam Street Car.*



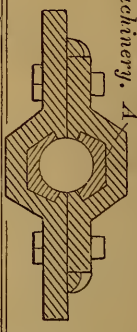
85332—R. W. Rogers—*Bridge.*



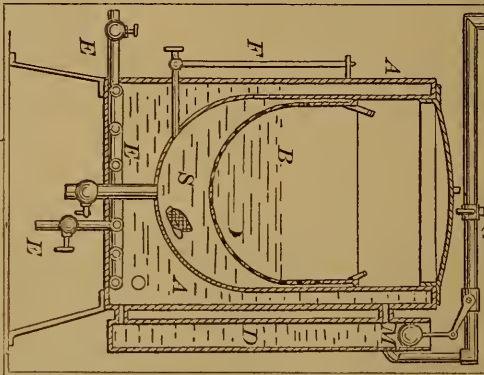
85337—S. M. Skidmore—*Velocipede.*



85341—H. F. & G. S. Snyder & Jones—*Casting Bearings for Machinery.*



85339—J. B. Smith—*Coffee Pot.*



85333—R. Sandiford—*Land Roller.*

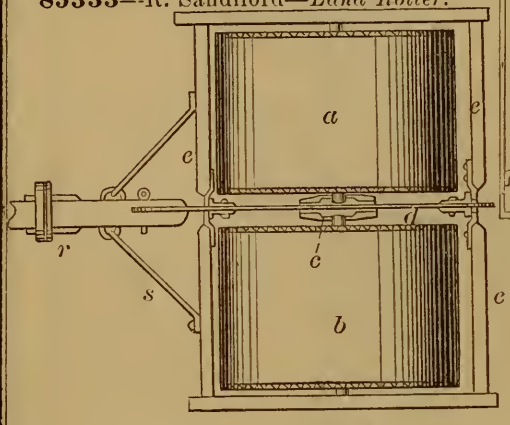


Fig. 6

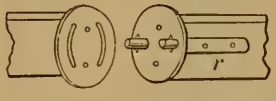


Fig. 7

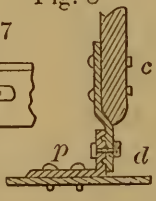
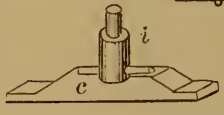
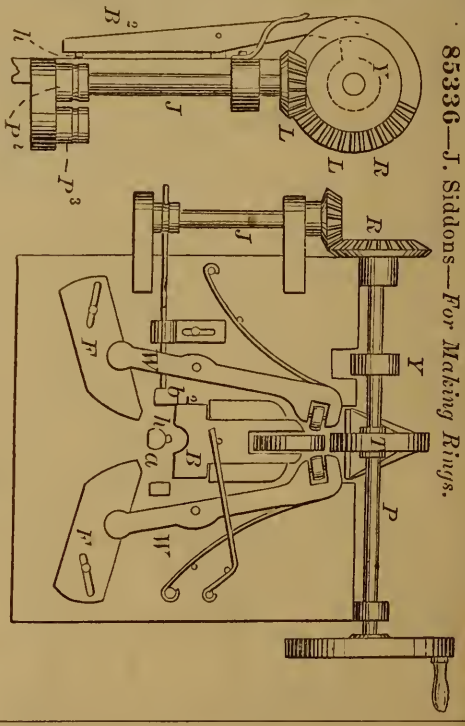


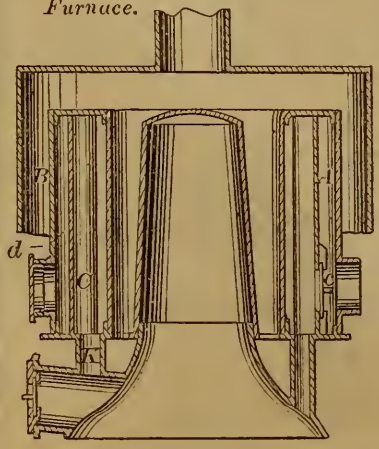
Fig. 8



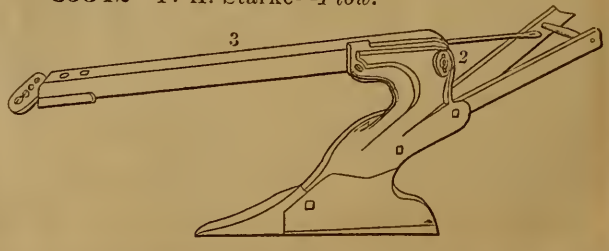
85336—J. Siddons—*For Making Rings.*



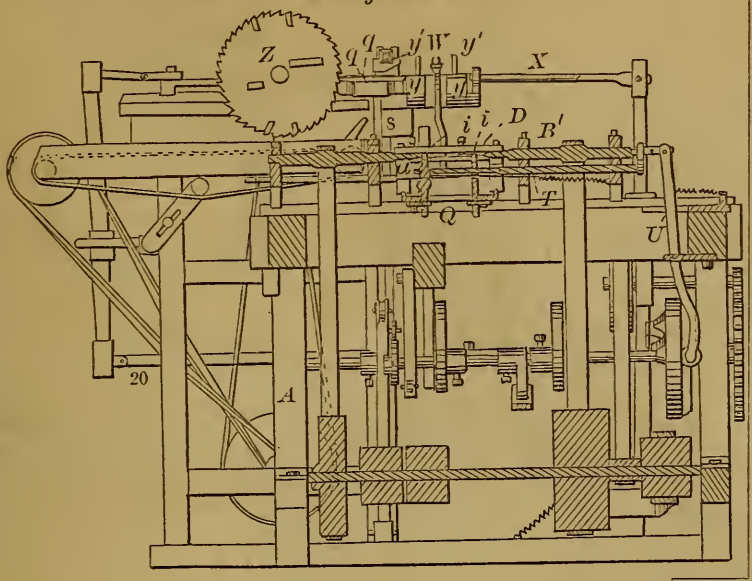
85335—J. Siddons—*Hot Air Furnace.*



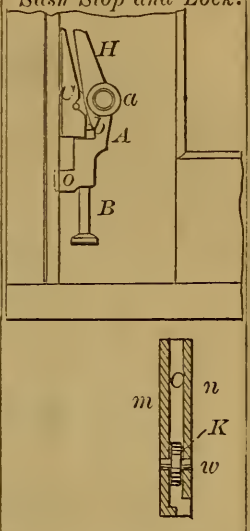
85342—P. H. Starke—*Plow.*



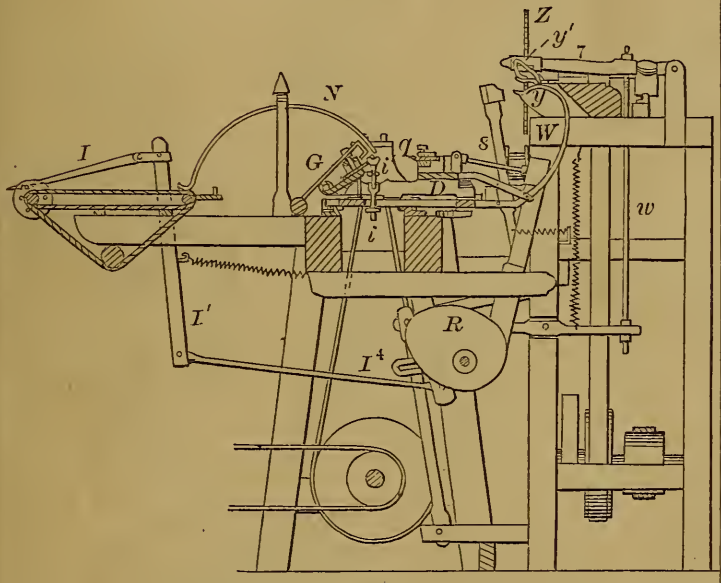
85338—J. B. Smith—*For Making Clothes Pins.*

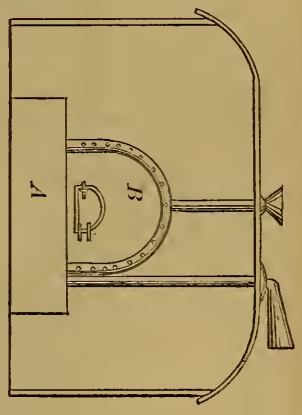


85345—
W. H. Sullenberger—
Sash Stop and Lock.

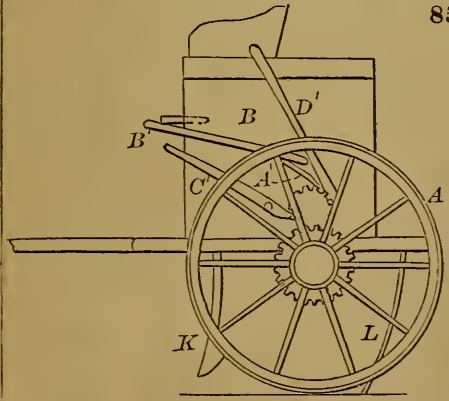


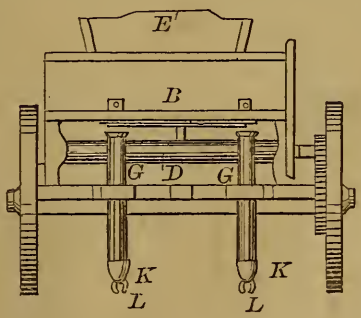
85348—A. P. Winslow—
Railroad Car Stove.

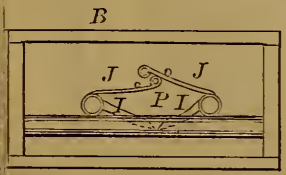




85343—A. Sternberg—*Seeding Machine.*

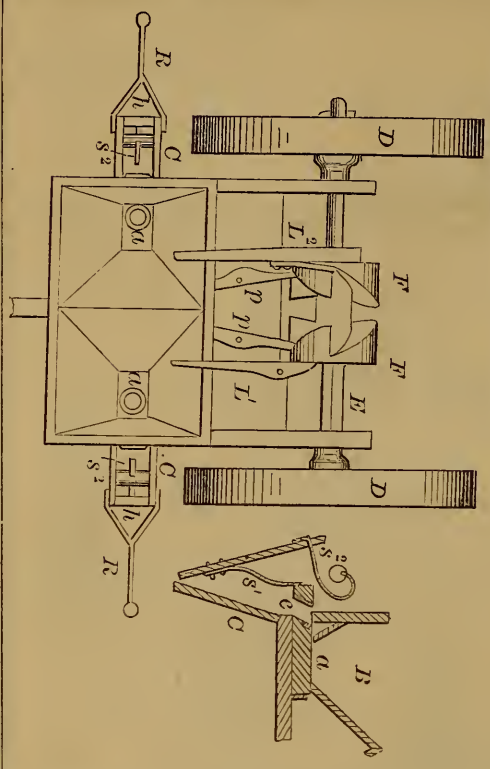




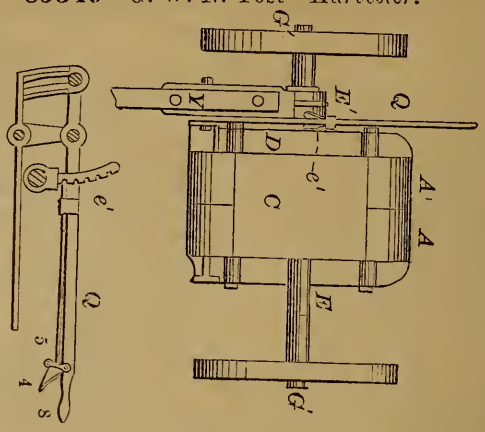


85344—G. Studer—*For Pressing Cigars.*

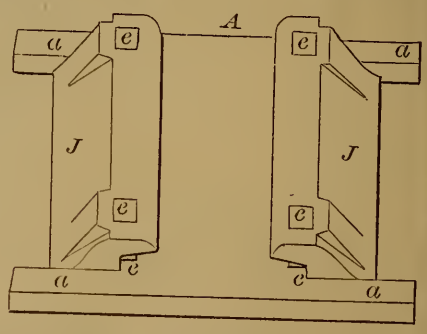
85346—E. Thrall—*Corn Planter.*



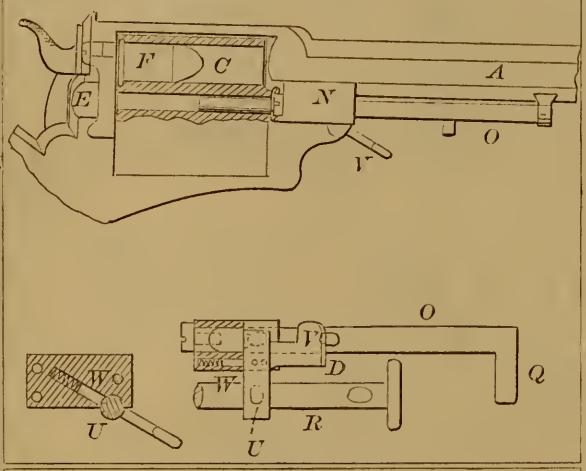
85349—G. W. N. Yost—*Harvester.*



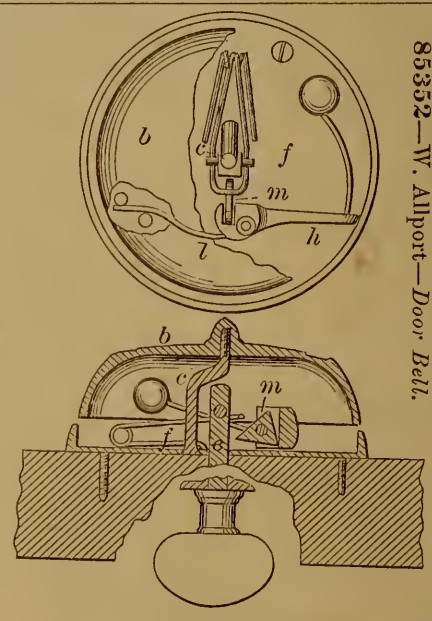
85347—W. Van Anden—*Railway Chair.*



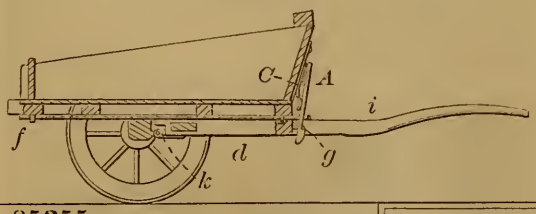
85350—J. Adams—*Fire Arm.*



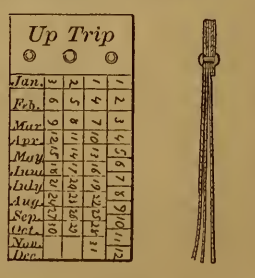
85352—W. Allport—*Door Bell.*



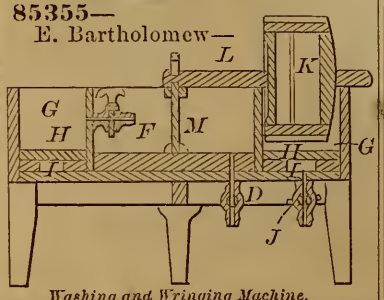
85353—J. H. C. Appelgate—*Dumping Cart.*



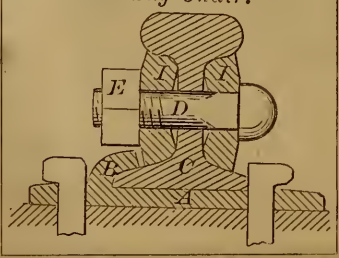
85351—H. E. Alexander—*Railroad Ticket.*



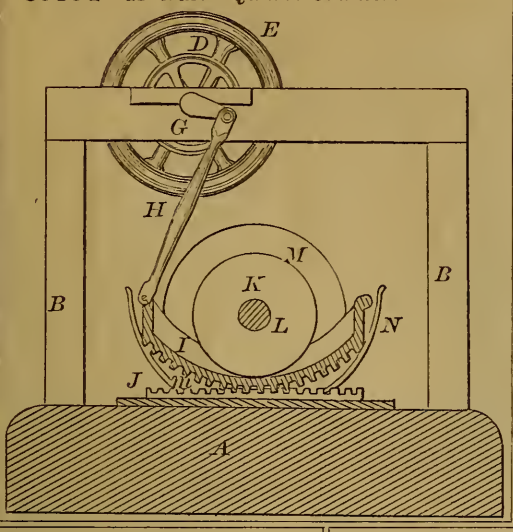
85355—E. Bartholomew—*Washing and Wringing Machine.*



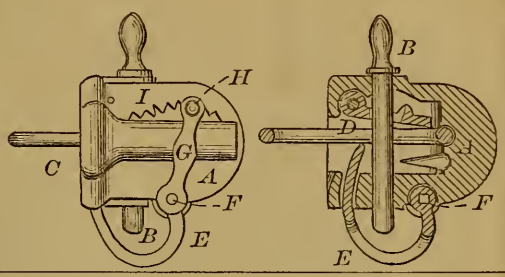
85357—G. W. R. Bayley—*Railway Chair.*



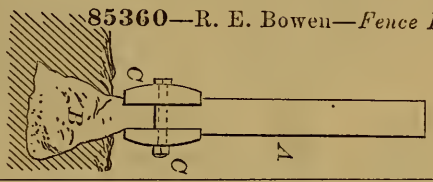
85354—H. Ball—*Quartz Crusher.*



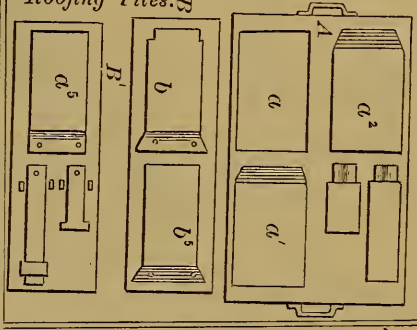
85359—H. W. Boifeuillet—*Car Coupling.*



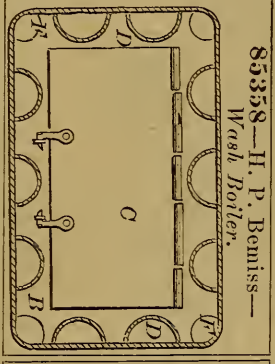
85360—R. E. Bowen—*Fence Post.*



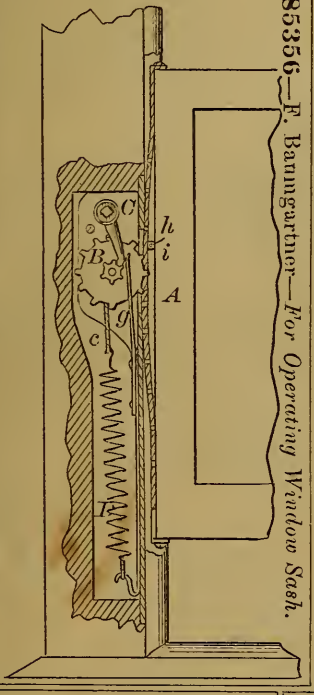
85362—P. A. Brown—*For Forming Roofing Tiles.*



85358—H. P. Bemiss—*Wash Boiler.*

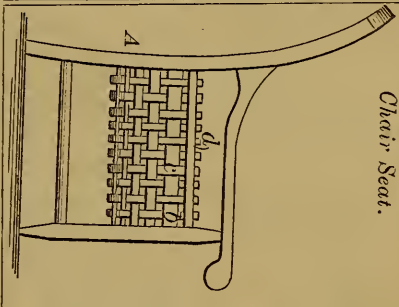


85356—F. Baumgartner—*For Operating Window Sash.*

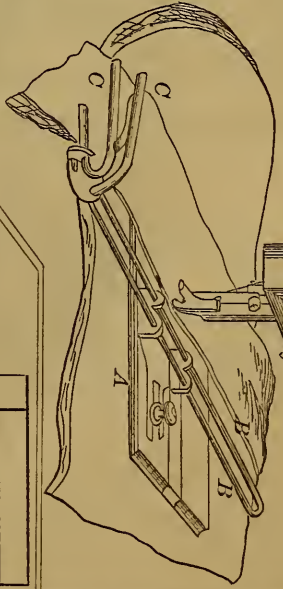


85361—G. F. Boyden—*Furniture Protector.*

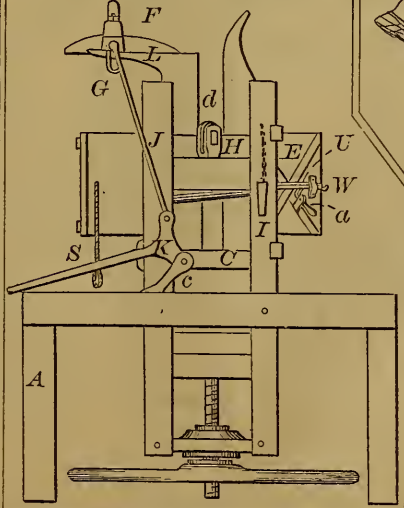
85363—G. Buckel—*Chair Seat.*



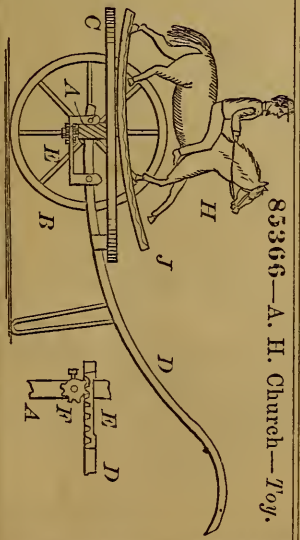
85364—W. Carpenter—*Sewing Machine.*



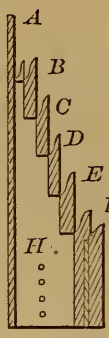
85365—M. D. Check—*Baling Press.*



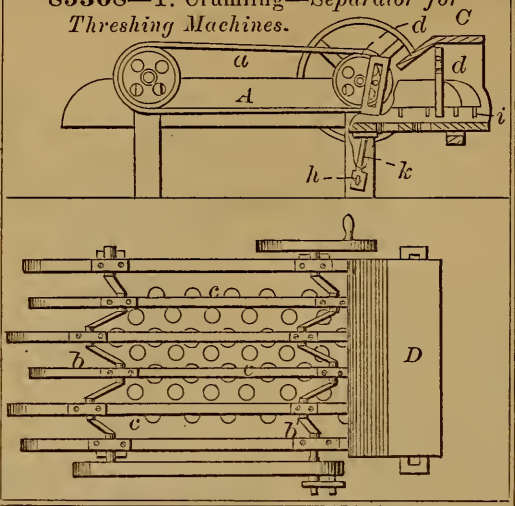
85366—A. H. Church—*Toy.*



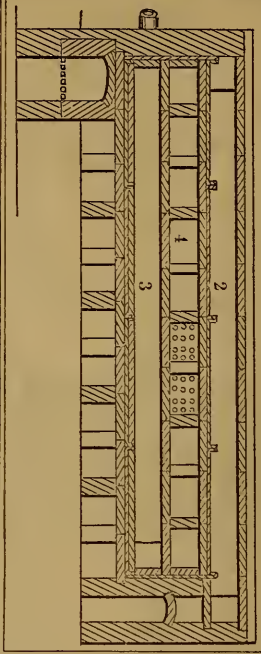
85367—J. A. M. Collins—*Bill Holder.*



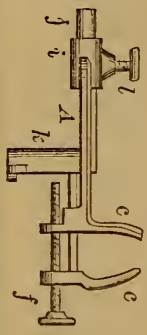
85368—T. Crumling—*Separator for Threshing Machines.*



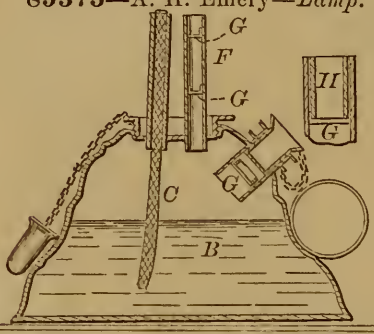
85370—H. Deacon—*For the Manufacture of Chlorine.*



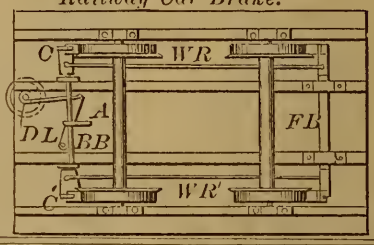
85372—J. Elliott—*Pipe and Faucet Clamp.*



85373—A. H. Emery—*Lamp.*

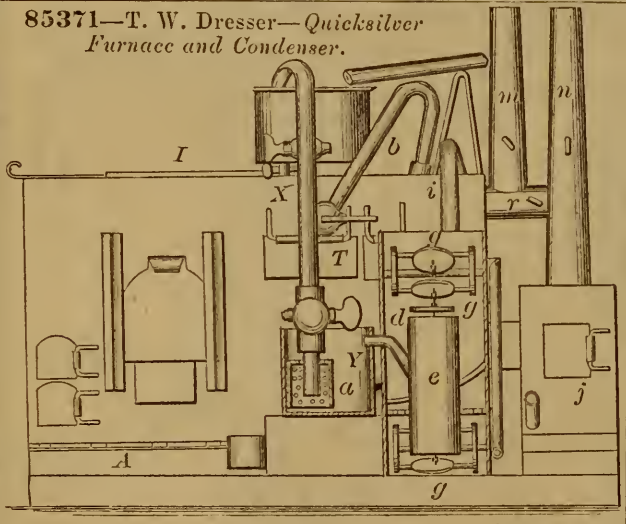


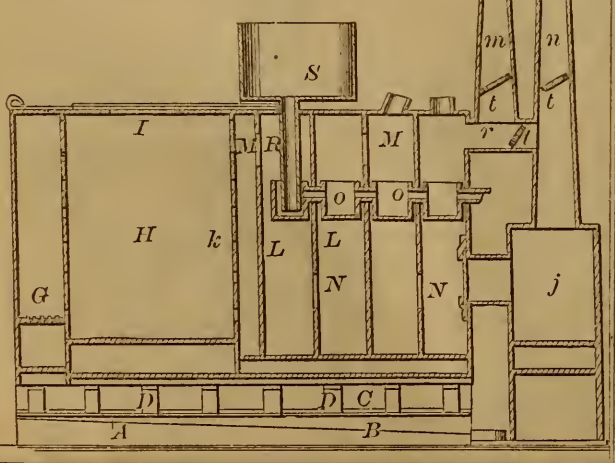
85369—C. D. Culver—*Railway Car Brake.*



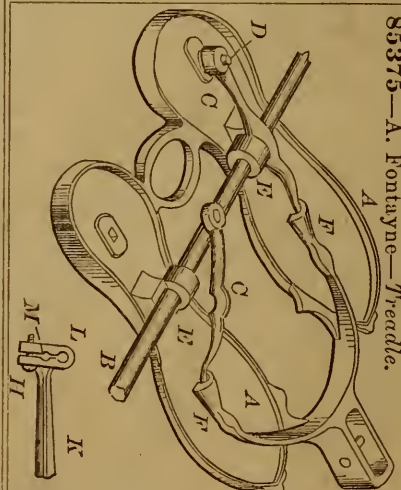
85374—J. M. Estabrook—*Screw Peg for Boots and Shoes.*

85371—T. W. Dresser—*Quicksilver Furnace and Condenser.*

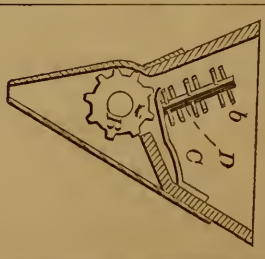




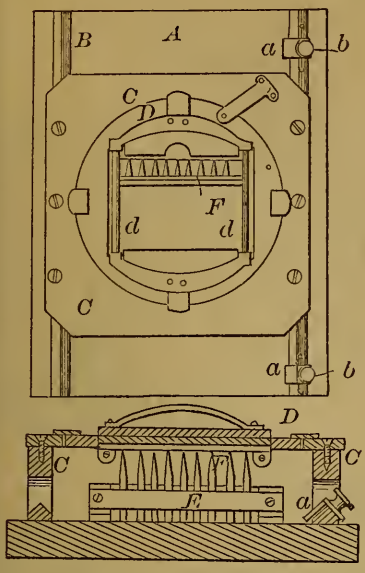
85375—A. Fontayne—*Treadle.*



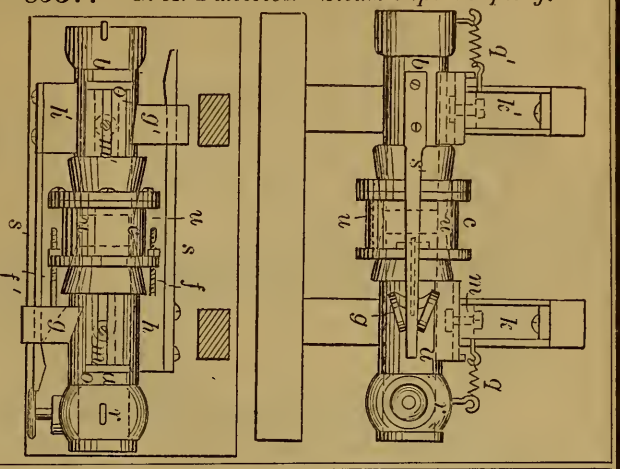
85379—A. J. Going—*Cotton Seed Planter.*



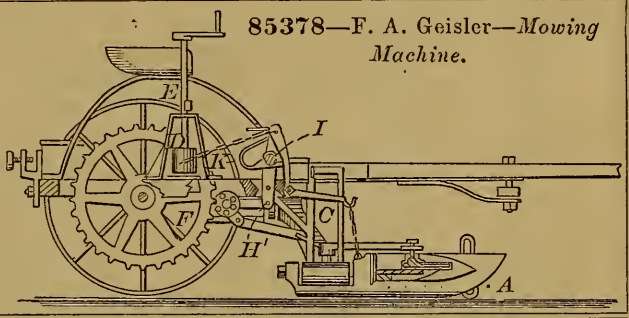
85376—J. H. French—*For Ruling School Slates.*



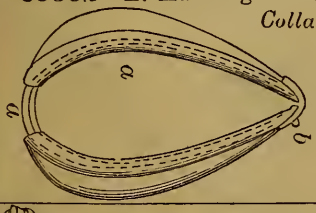
85377—G. A. Fullerton—*Steam Pipe Coupling.*



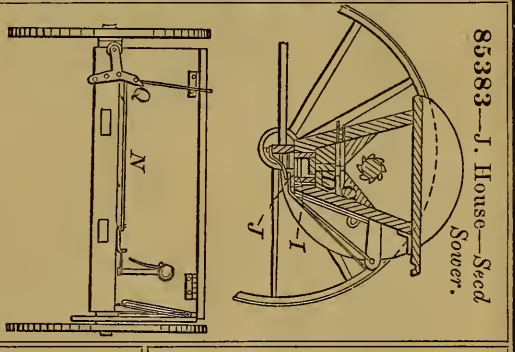
85378—F. A. Geisler—*Mowing Machine.*



85382—E. Harbaugh—*Horse Collar.*

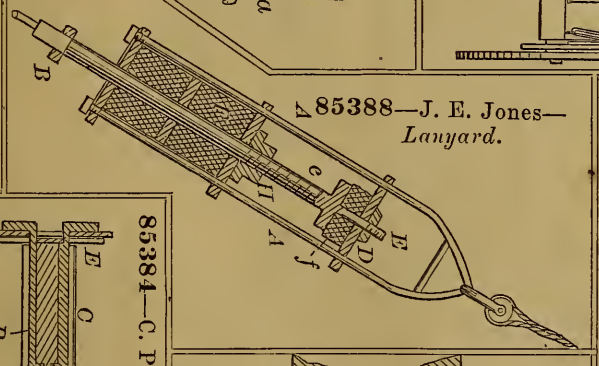


85383—J. House—*Seed Sower.*

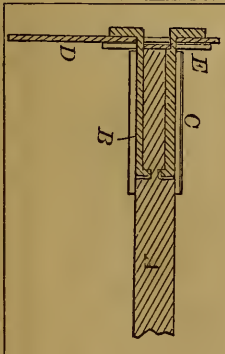


85380—C. E. Griffin—*Scythe.*

85388—J. E. Jones—*Lanyard.*

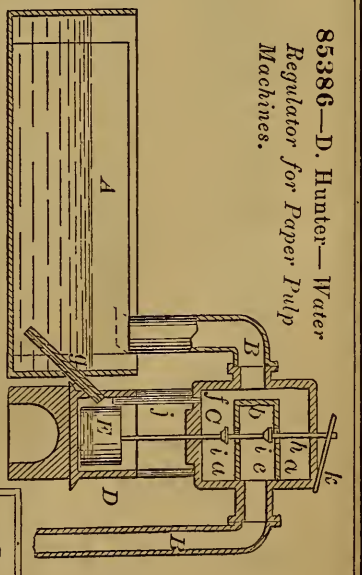


85384—C. P. Howell—*Hoe.*

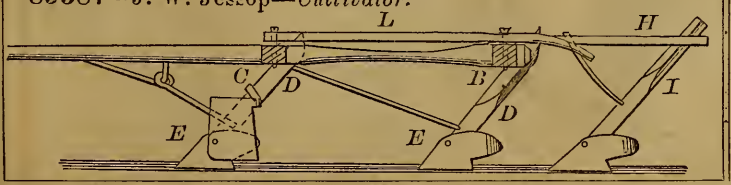


85381—W. Hamilton—*Lock Nut.*

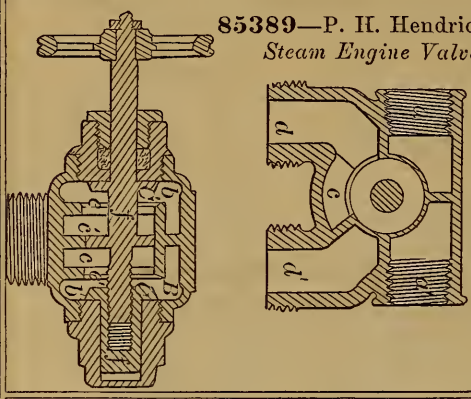
85386—D. Hunter—*Water Regulator for Paper Pulp Machines.*



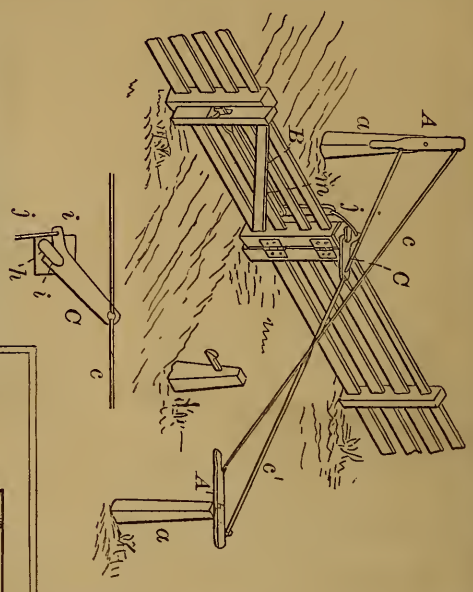
85387—J. W. Jessop—*Cultivator.*



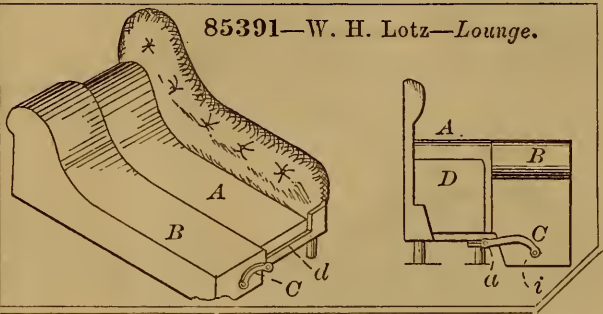
85389—P. H. Hendricken—*Steam Engine Valve.*



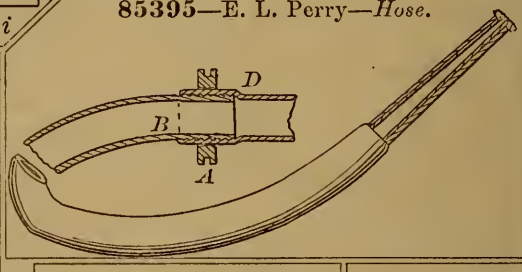
85390—H. M. Long—*Gate Attachment.*



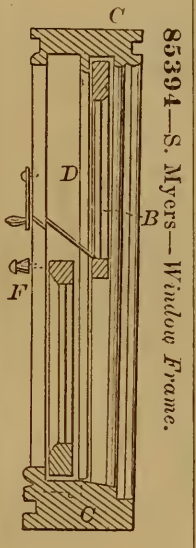
85391—W. H. Lotz—*Lounge.*



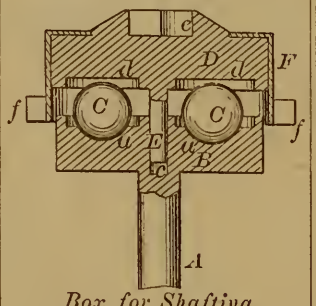
85395—E. L. Perry—*Hose.*



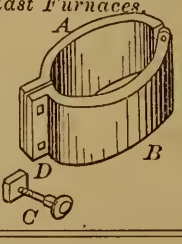
85394—S. Myers—*Window Frame.*



85393—J. McIlvain—*Box for Shafting.*

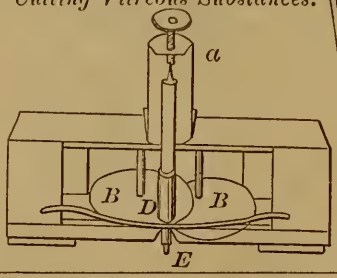


85392—H. McCullaugh—*Collar for Pipes in Hot Blast Furnaces.*

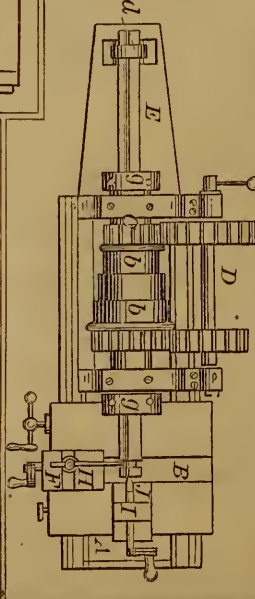


85397—J. Restein—*For Paper Collars.*

85396—O. M. Pike—*For Cutting Vitreous Substances.*

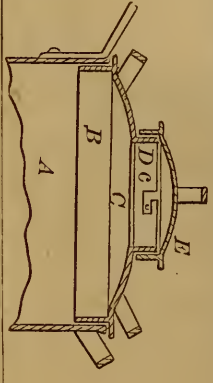


85399—F. Rheydt—*Screw Nut.*

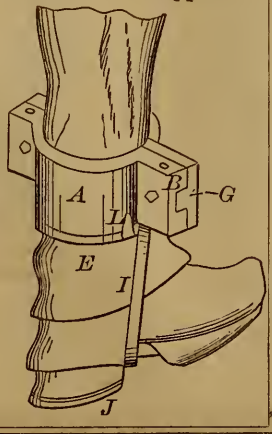


85400—J. C. Richardson—*Fork Blank.*

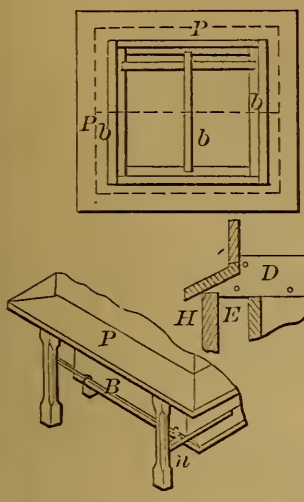
85398—G. Reuben—*Pot and Kettle Cover.*

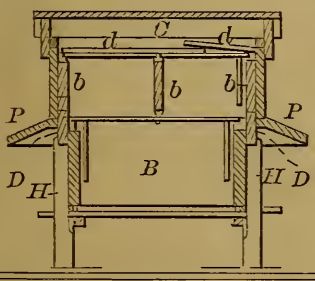


85402—W. Riley—*Shackle and Supporter.*

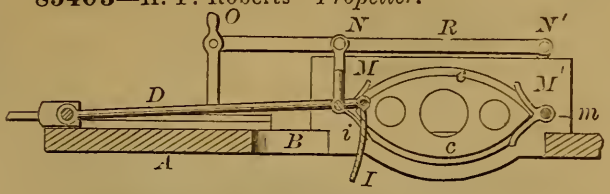


85401—S. L. Richardson—*Beehive.*

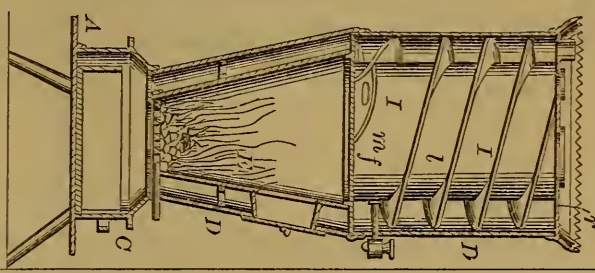




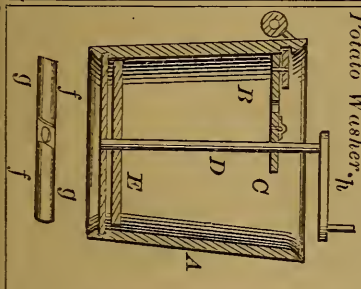
85403—H. F. Roberts—*Propeller.*



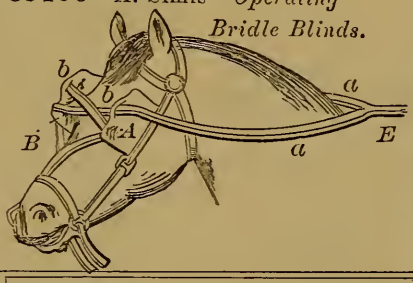
85404—M. Schlegel—*Stove.*



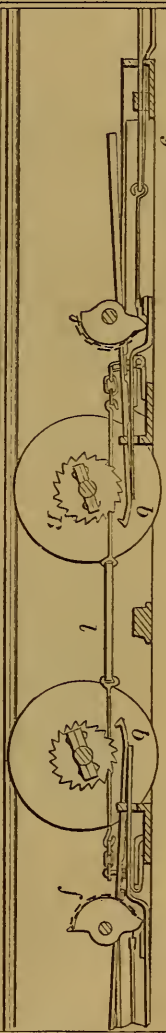
85405—L. B. Sherwin—*Potato Washer.*



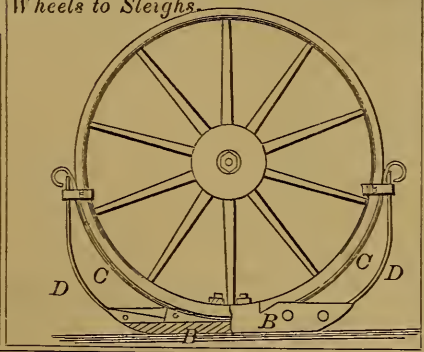
85406—A. Simis—*Operating Bridle Blinds.*



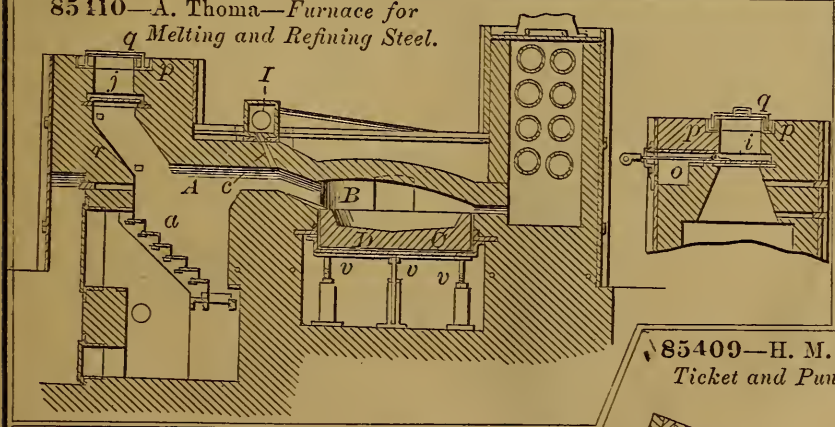
85407—J. Stogor—*Car Starter.*



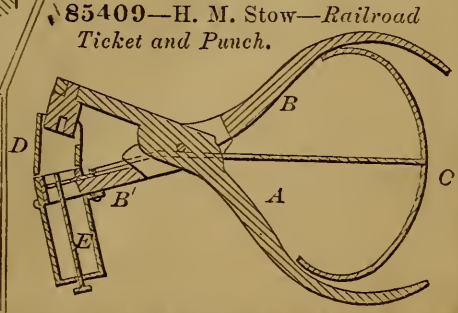
85408—J. Stonebanks—*Attaching Wheels to Sleighs.*



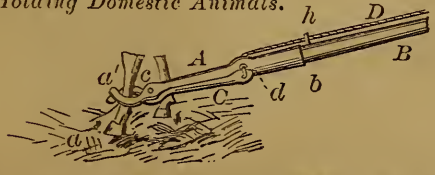
85410—A. Thoma—*Furnace for Melting and Refining Steel.*



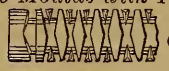
85409—H. M. Stow—*Railroad Ticket and Punch.*

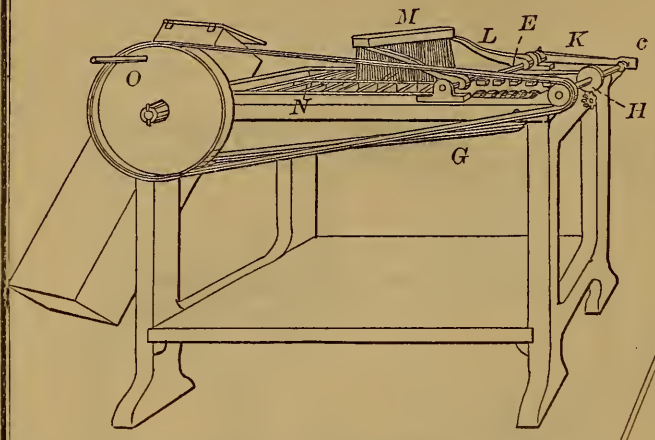


85413—H. V. Van Etten—*For Catching and Holding Domestic Animals.*

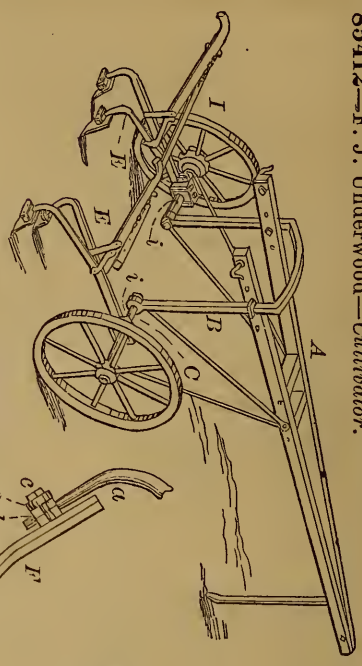


85411—S. D. Tucker—*For Coating the Surfaces of Electrotype Moulds with Plumbago.*

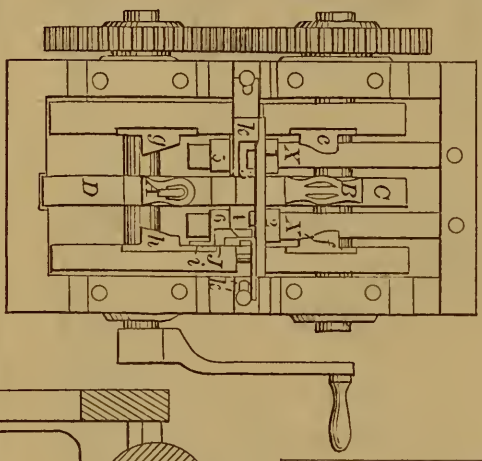


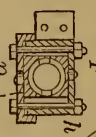


85412—F. J. Underwood—*Cultivator.*

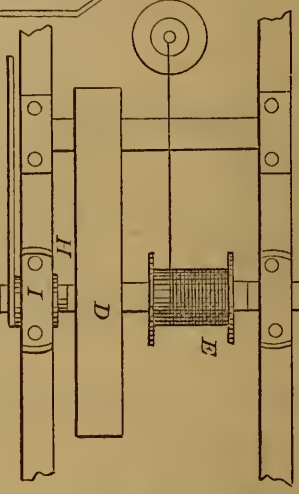


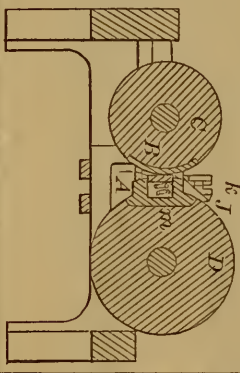
85414—E. Wassell—*For Making Horse Shoes.*

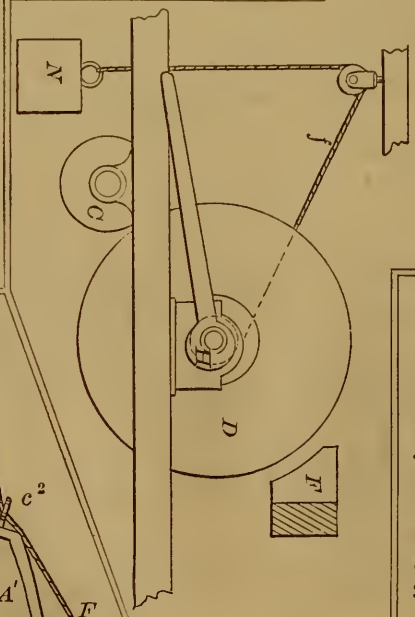




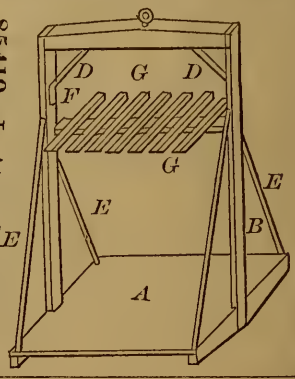
85415—W. C. Williamson—*Hoisting Machine.*

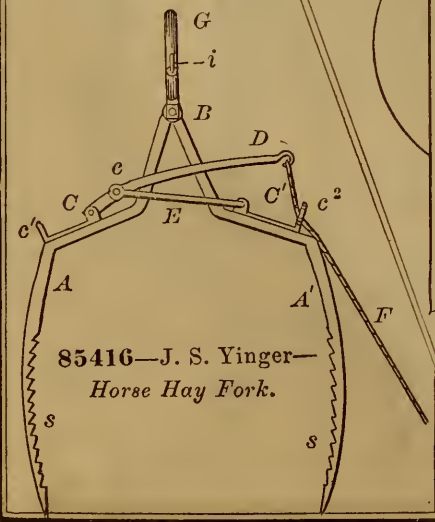






85419—L. Atwood—*Hoisting Apparatus for Builders.*

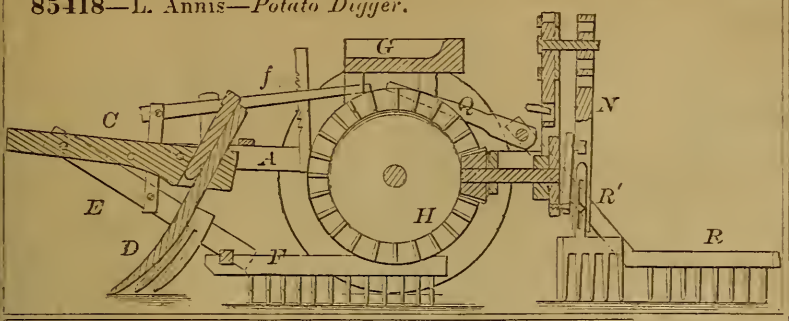




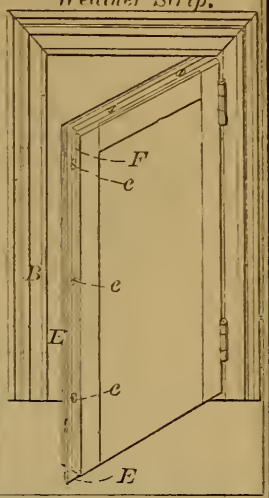
85416—J. S. Yinger—*Horse Hay Fork.*

85417—E. Andrews—*Saw.*

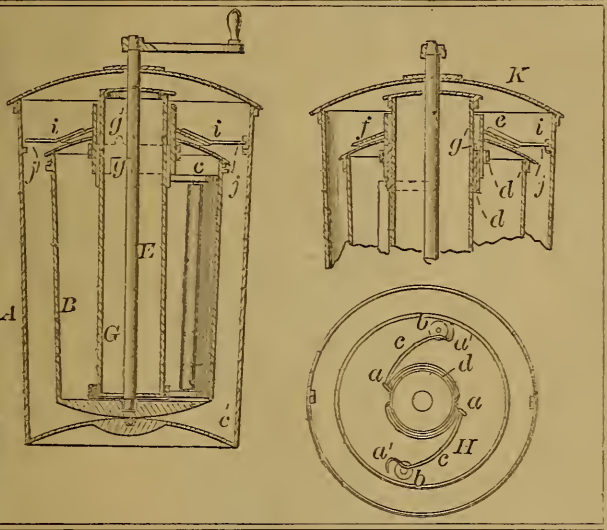
85418—L. Annis—*Potato Digger.*



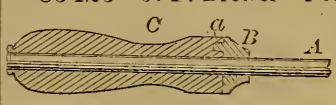
85422—C. Bean—*Weather Strip.*



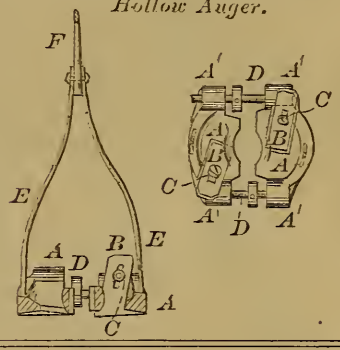
85420—A. S. Ballard—*Ice Cream Freezer.*



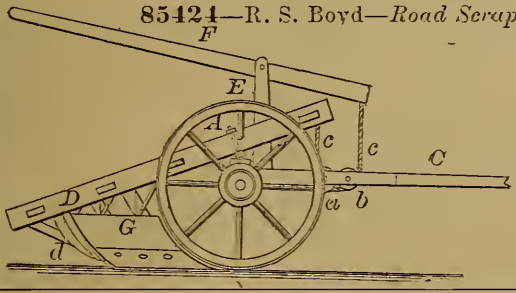
85425—J. F. Brewer—*Poker.*



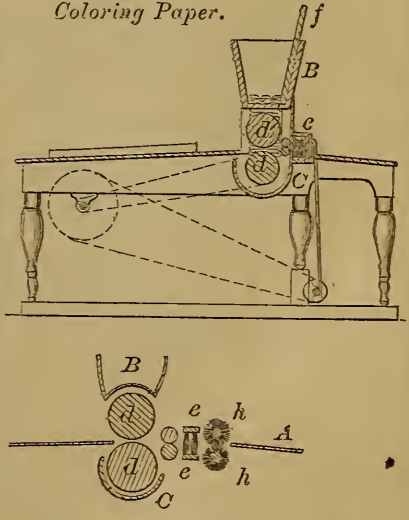
85423—J. H. Beauregard—*Hollow Auger.*



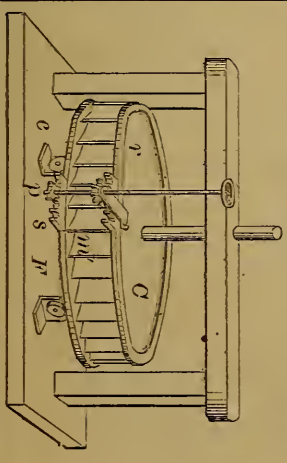
85424—R. S. Boyd—*Road Scraper.*

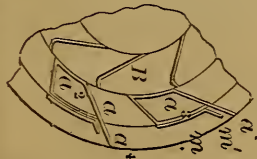


85426—C. K. Brown—*For Coloring Paper.*

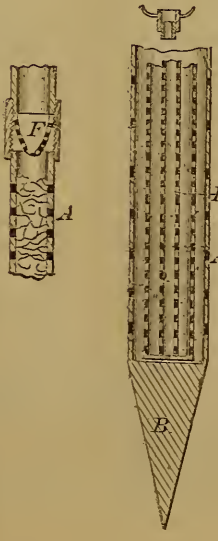


85421—D. S. Bartlett—*Water Wheel.*

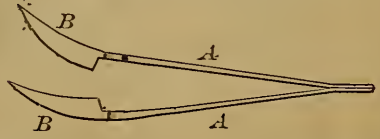




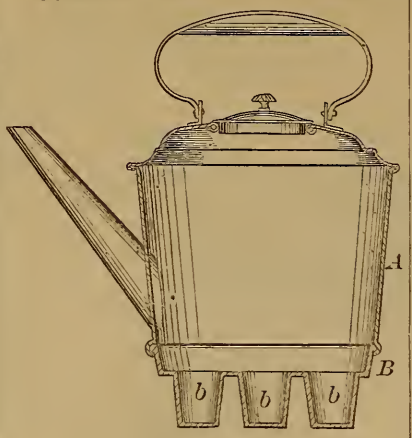
85428—W. & G. H. Burditt—*Drive Well.*

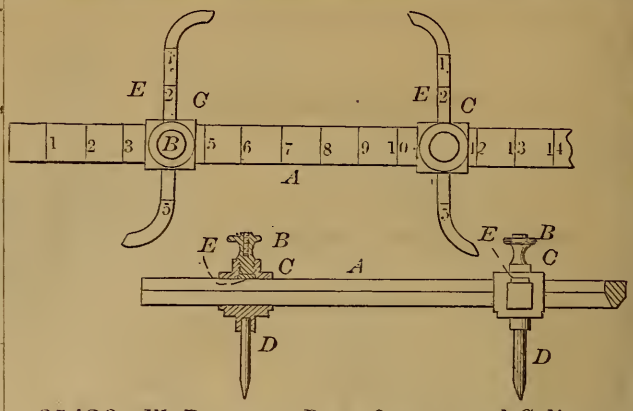


85427—J. Bull—*Scissors.*



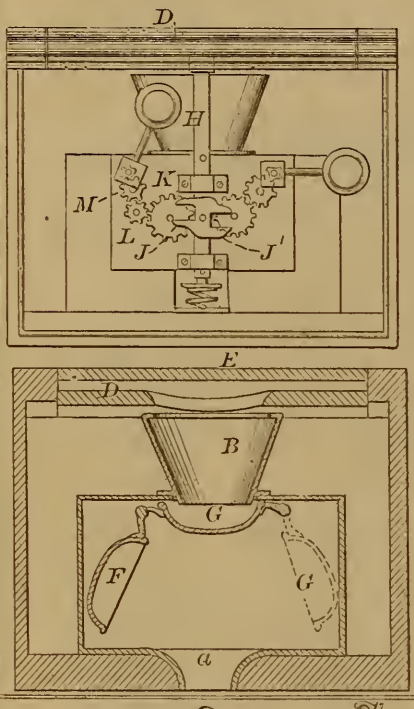
85429—J. Burns—*Kettle.*



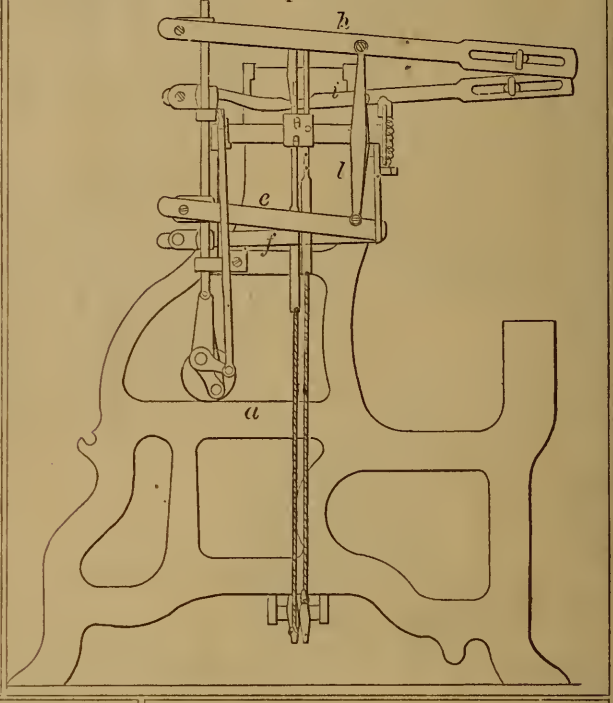


85430—W. Burrows—*Beam Compass and Calipers.*

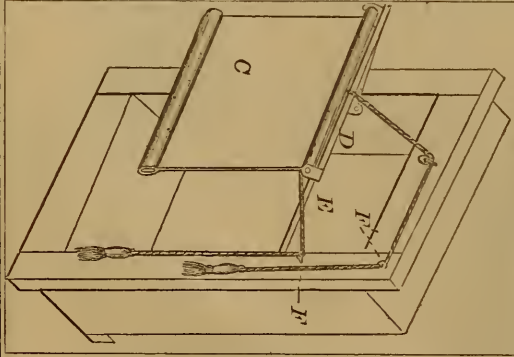
85431—W. A. Butler—*Pan for Water Closets.*



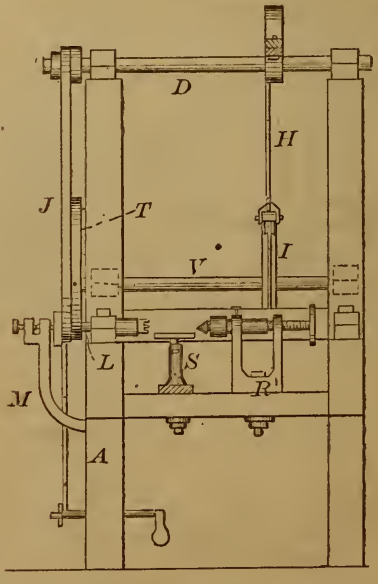
85432—G. Crompton—*Loom.*



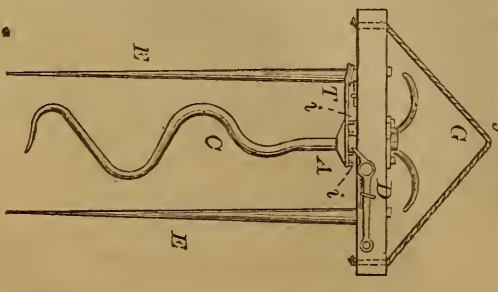
85433—A. S. Dickerson—*Curtain Fixture.*



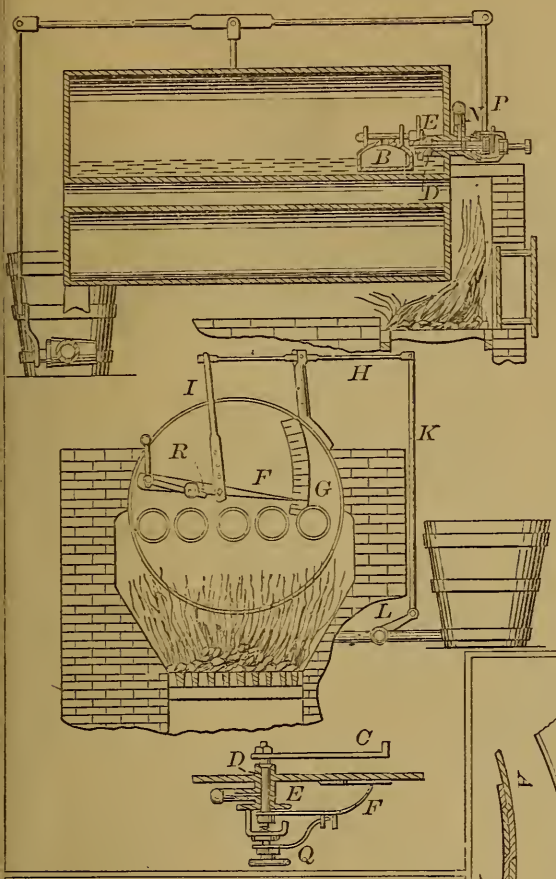
85436—G. H. Eddleman—*Sawing Machine.*



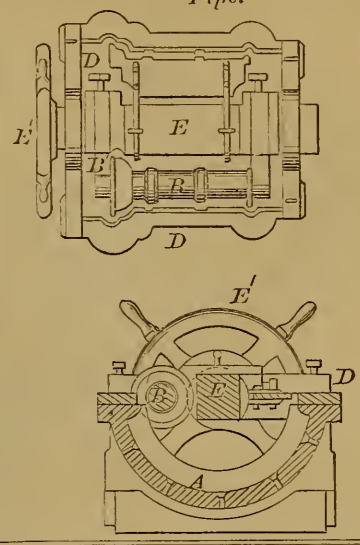
85437—J. T. Elliott—*Horse Hay Fork.*



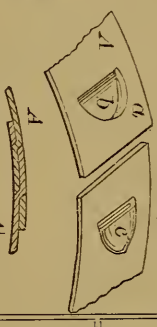
85435—W. V. Dubois—*Water Indicator for Boilers.*



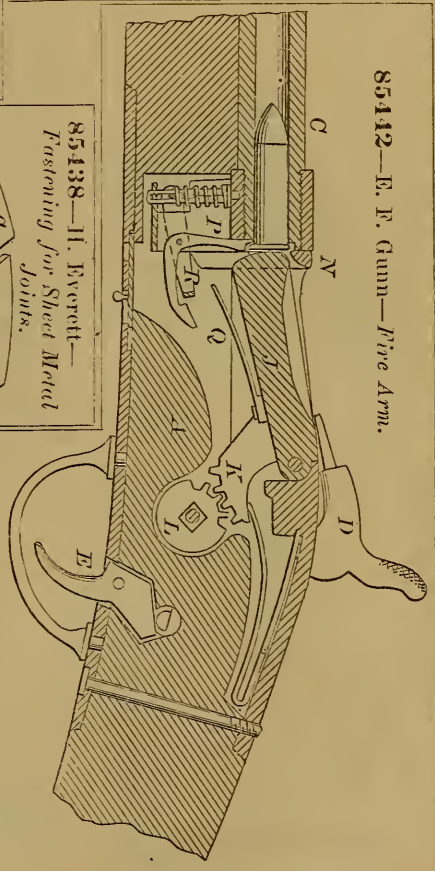
85440—G. H. Garrett—*Moulding Pipe.*



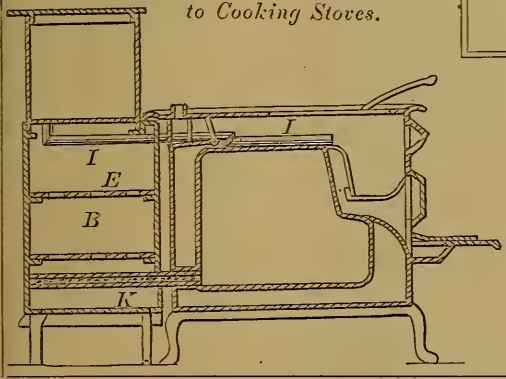
85438—H. Everett—*Fastening for Sheet Metal Joints.*



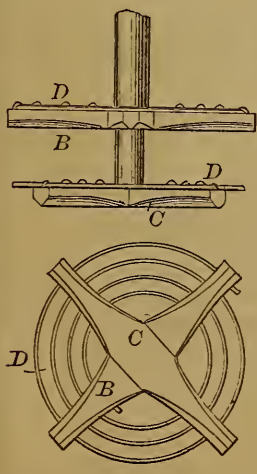
85442—E. F. Gunn—*Fire Arm.*



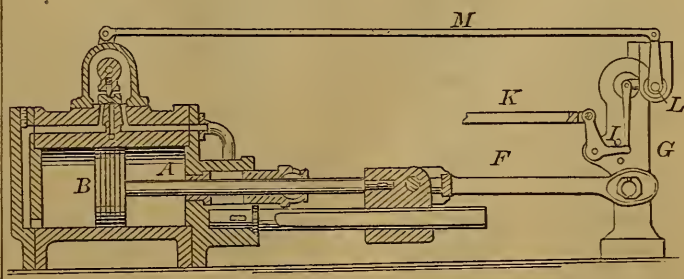
85441—G. W. Gillett—*Attachment to Cooking Stoves.*



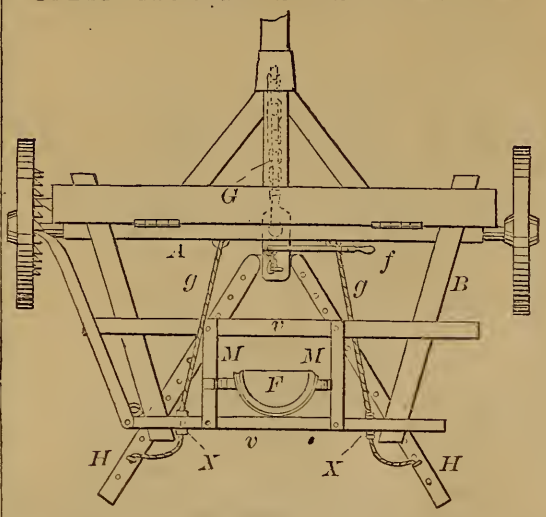
85445—M. R. Heliker—*Churn Dasher.*



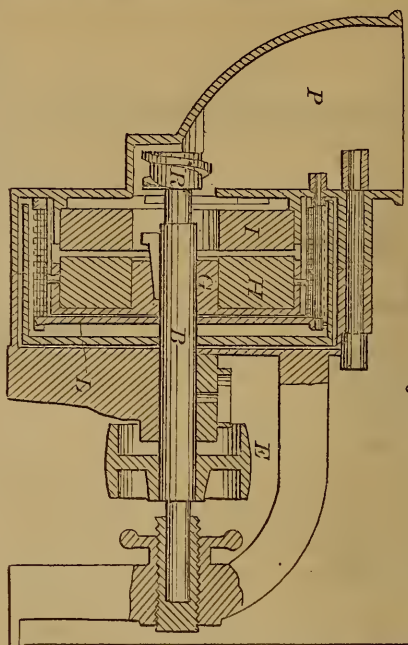
85439—J. J. L. Farcot—*For Controlling Engines.*



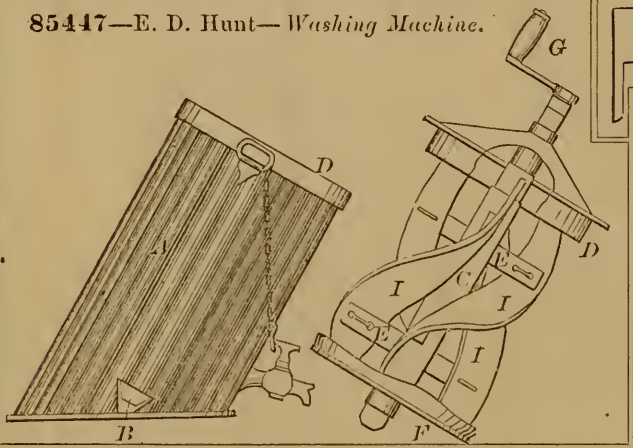
85443—A. Hallam—*Seed Sower and Harrow.*



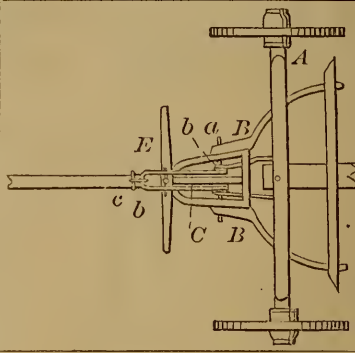
85444—E. Harrison—*Grinding Mill.*



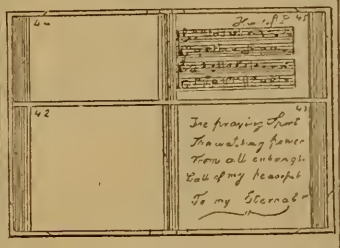
85447—E. D. Hunt—*Washing Machine.*



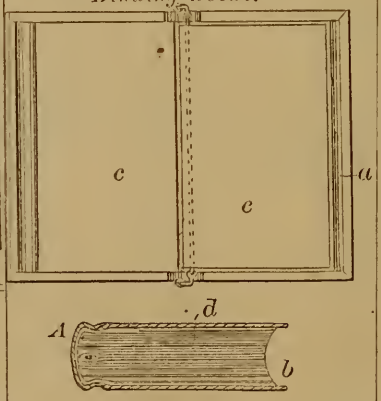
85446—J. O. Houck—*For Supporting Wagon Tongues.*



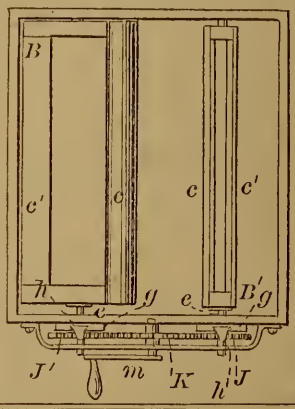
85448—I. Ickes—*Music Book.*



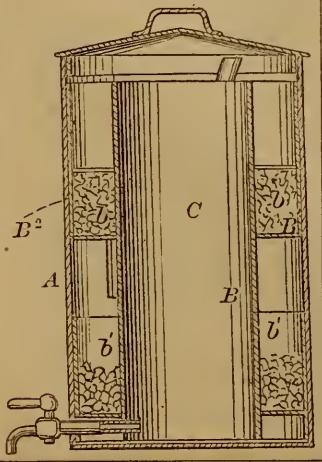
85450—A. H. Jocelyn—*Binding Books.*



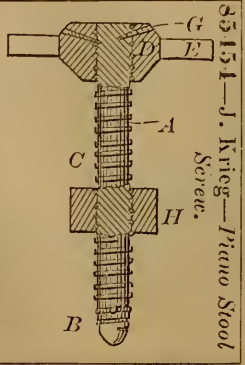
85452—W. E. Kinert—*Churn.*



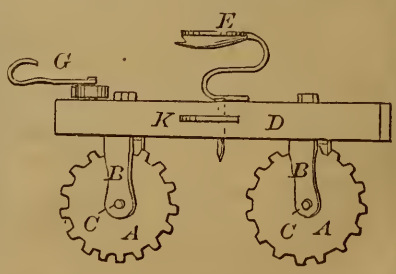
85449—C. H. Jackson—*Filter.*



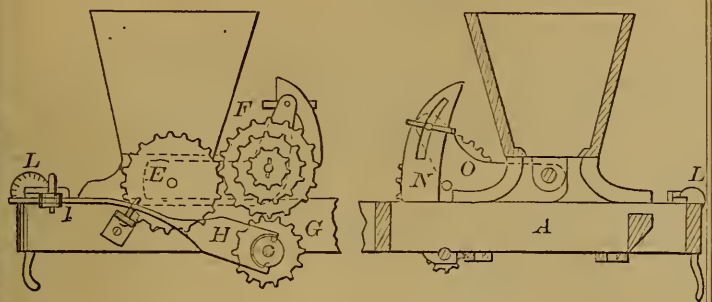
85454—J. Krieg—*Piano Stool Screw.*

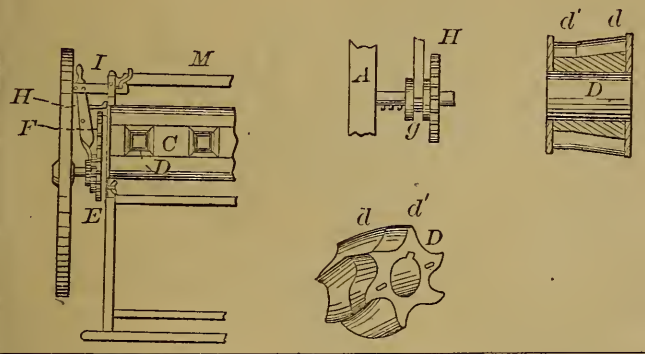


85451—M. Johnson—*Plow.*

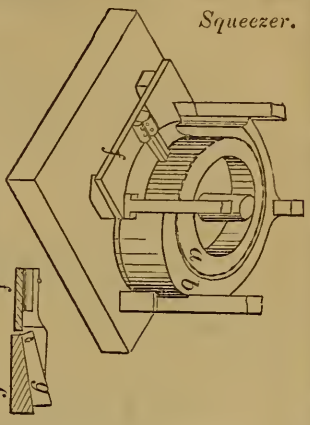


85455—B. Kuhns—*Seed Planter.*

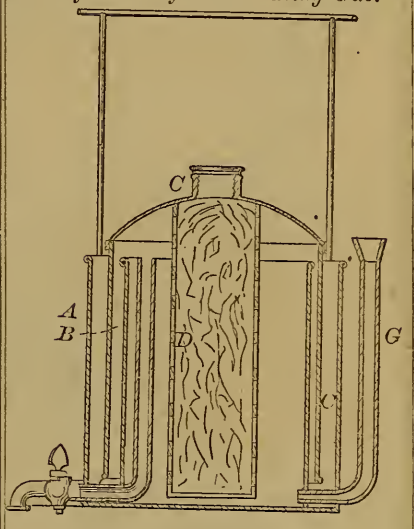




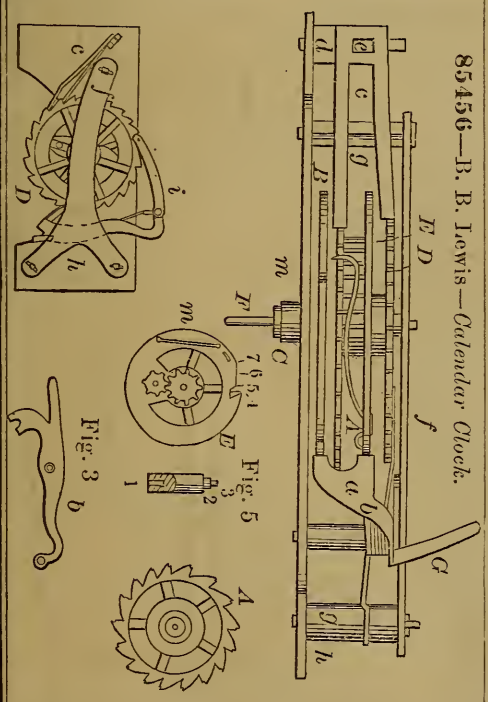
85457—L. W Lewis—*Metal Squeezer.*



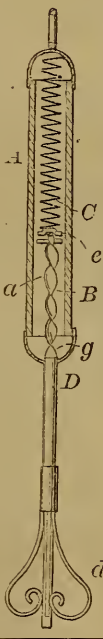
85458—J. S. Lipps—*Manufacture of Illuminating Gas.*



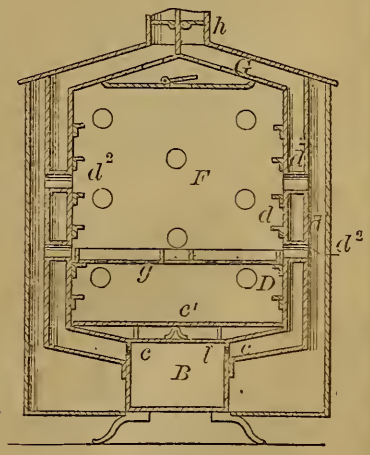
85456—B. B. Lewis—*Calendar Clock.*

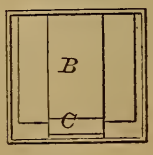


85460—D. D. Mackay—*Egg Beater.*

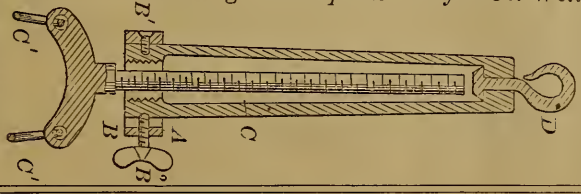


85459—Lucas & Lehman—*Fruit Dryer.*



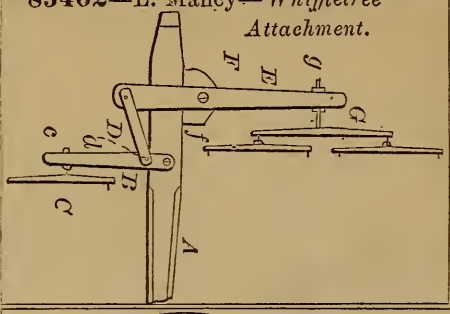


85461—R. B. Magee—*Temper Screw for Oil Wells.*

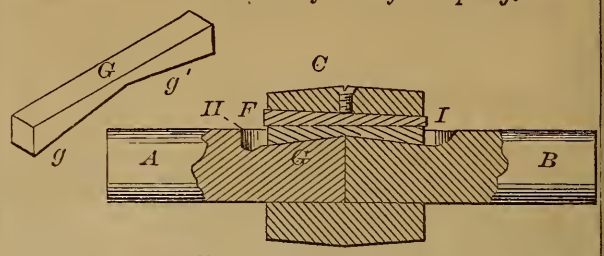


85463—Matthews & Moore—*Door for Gas Retorts, Furnaces, &c.*

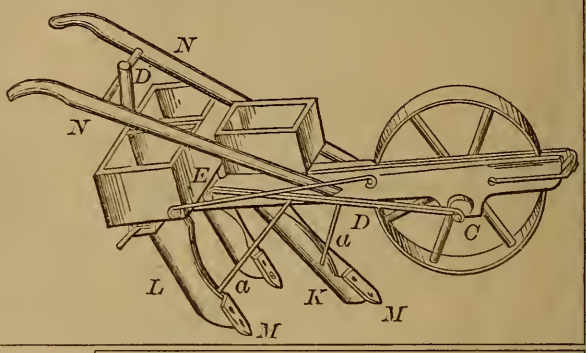
85462—L. Mancy—*Whiffletree Attachment.*



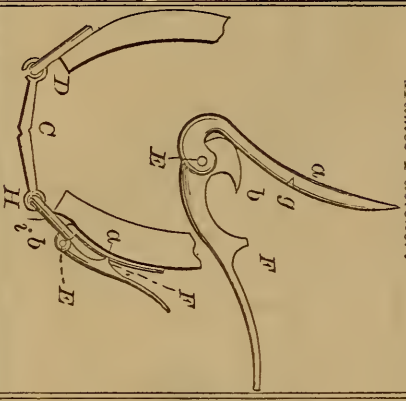
85465—W. S. McKinney—*Shaft Coupling.*



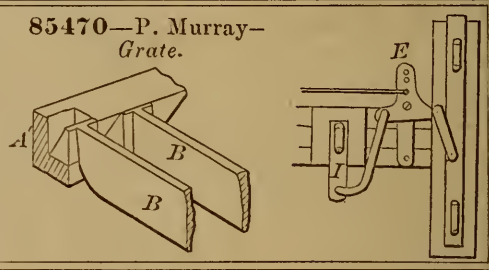
85466—N. Mendenhall—*Corn and Seed Planter.*



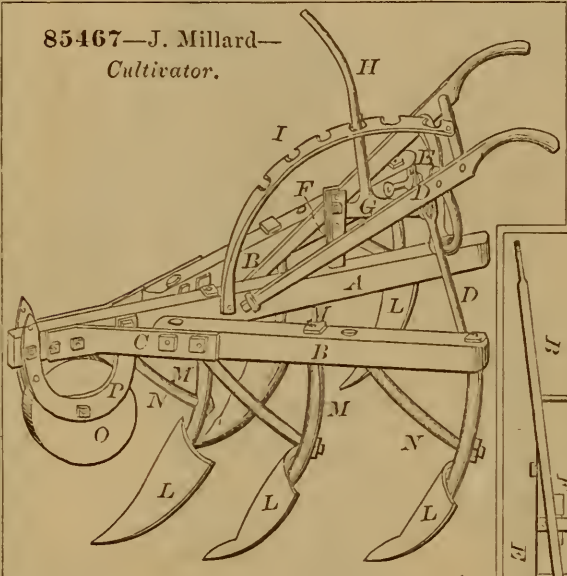
85464—J. H. McKinley—*Hames Fastener.*

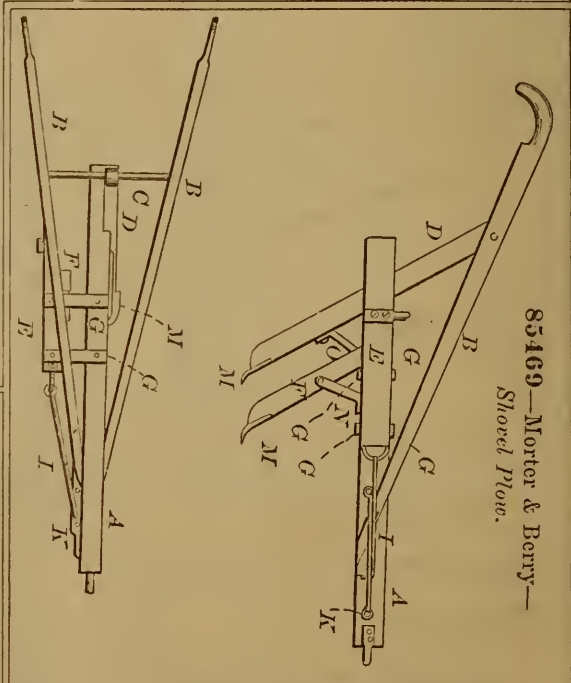


85470—P. Murray—*Grate.*



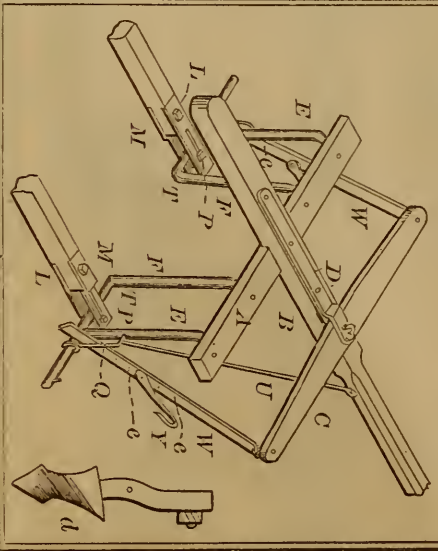
85467—J. Millard—*Cultivator.*





85469—Morter & Berry—*Shoved Plow.*

85471—I. A. Palmer—*Cultivator.*



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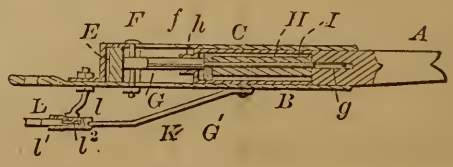

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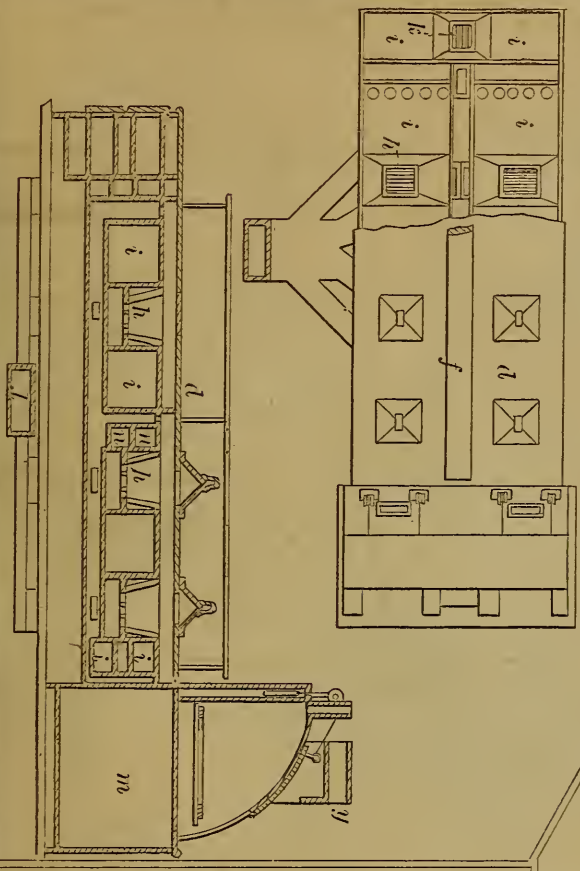
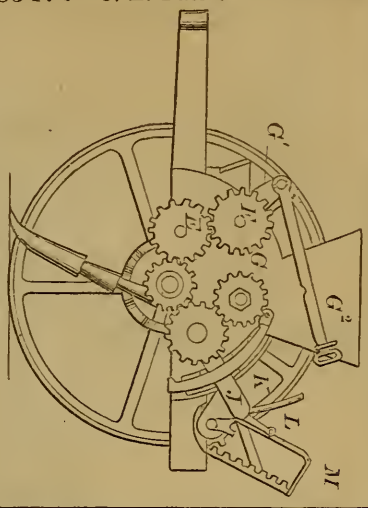
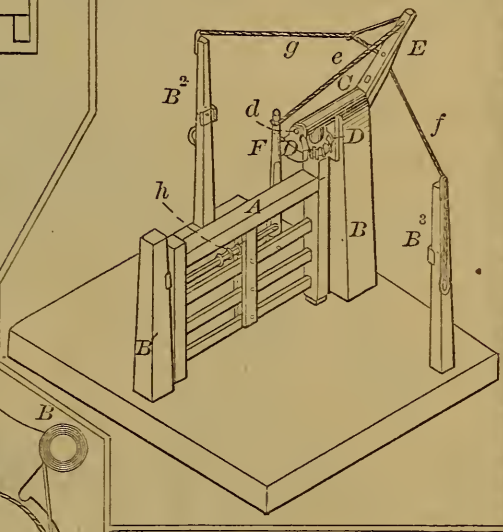


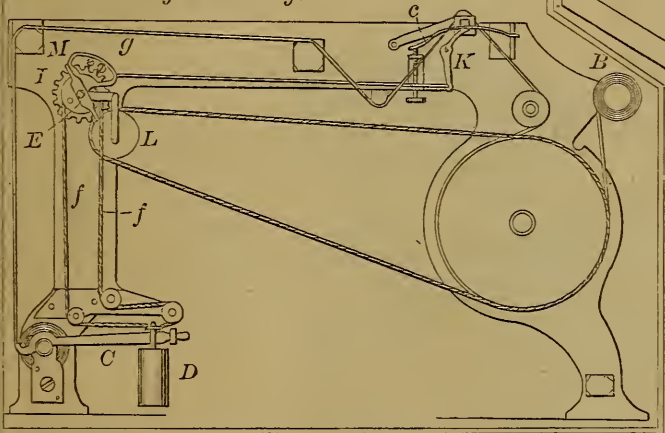
85472—C. E. Patric—*Grain Drill.*



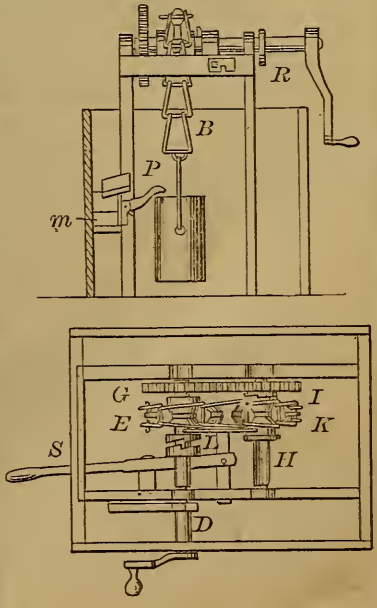
85474—A. J. Potter—*Gate.*



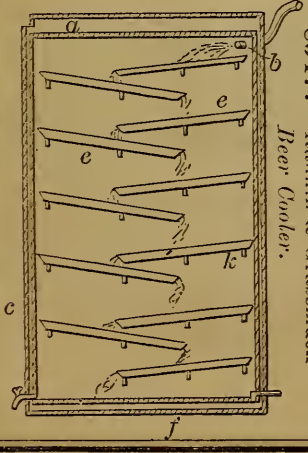
85475—E. O. Potter—*For Feeding Cloth to Printing Machinery.*



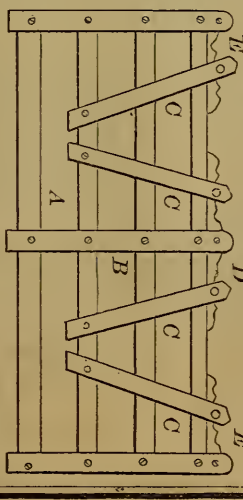
85476—J. T. Raftery—*Water Elevator.*



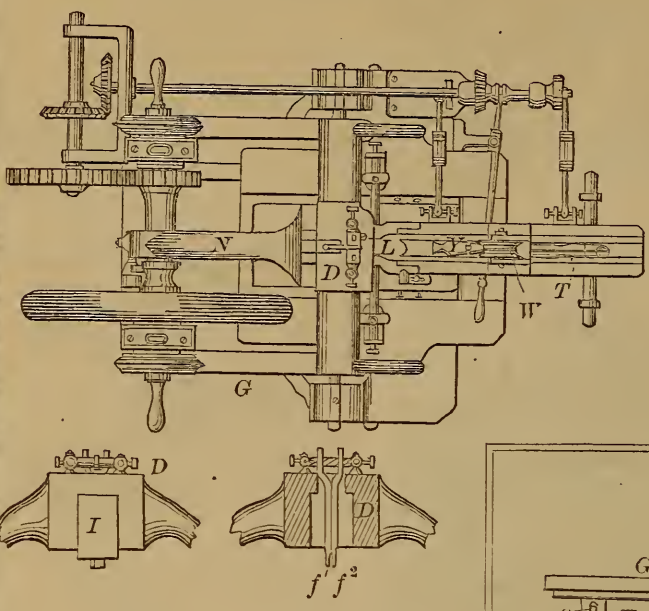
85477—Rankin & Grassmuck—*Beer Cooler.*



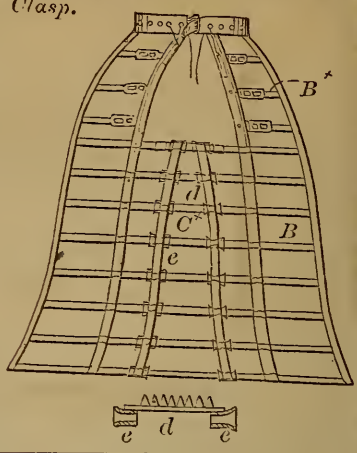
85479—N. Rue—*Gate.*



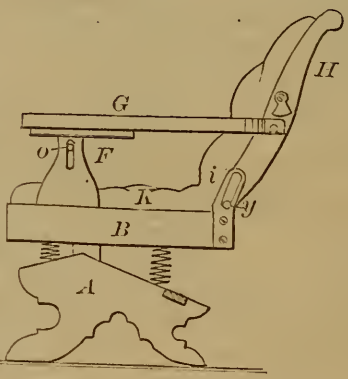
85478—D. Reed—*Nail Plate Feeder.*



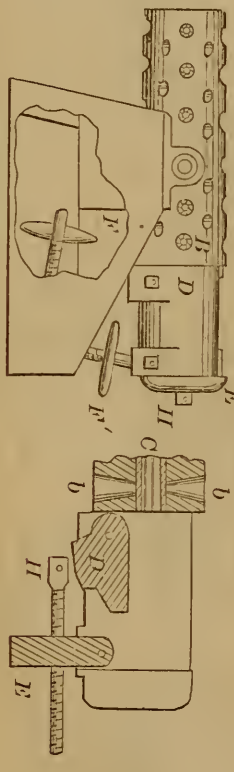
85480—M. Samuels—*Hoop Skirt Clasp.*



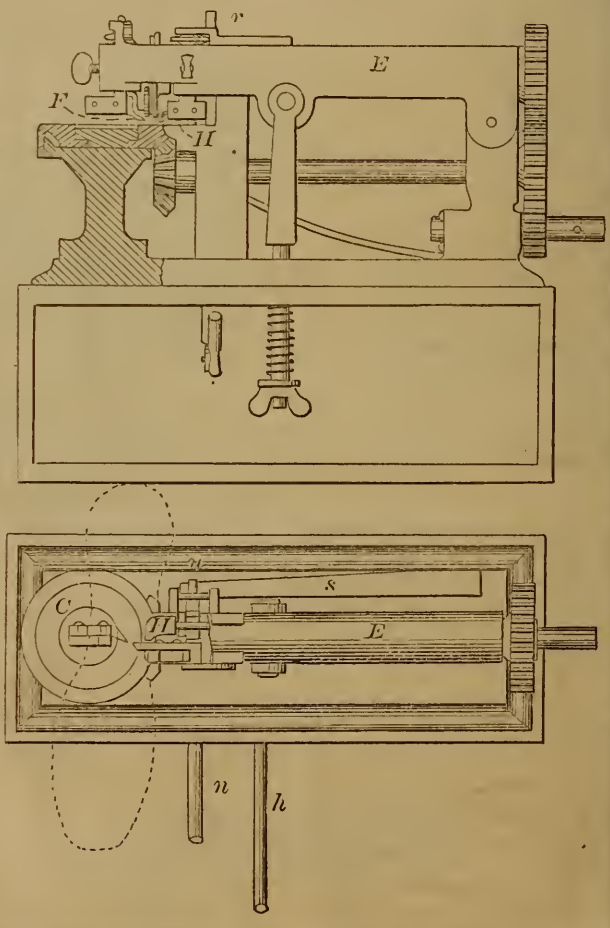
85481—C. C. Schmitt—*Spring Rocking Chair.*



85491—J. A. Terrell—*Cannon.*

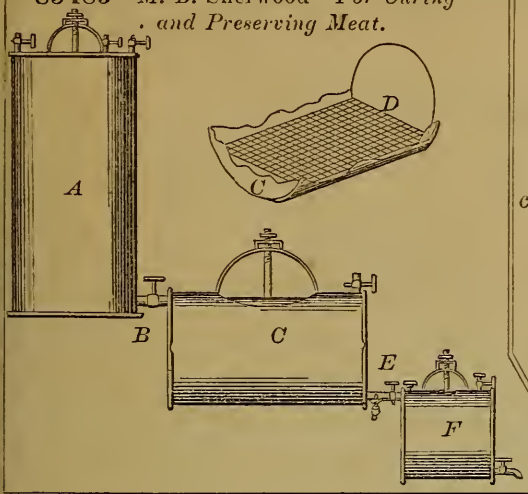


85486—M. J. Stein—*For Channeling Boot and Shoe Sole.*



85484—F. J. Seymour—*Tube for Oilers.*

85485—M. B. Sherwood—*For Curing and Preserving Meat.*



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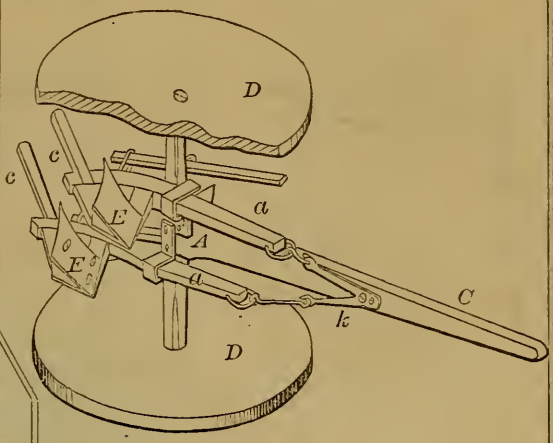
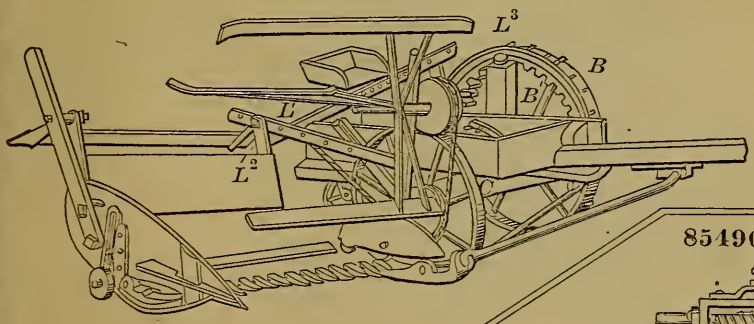
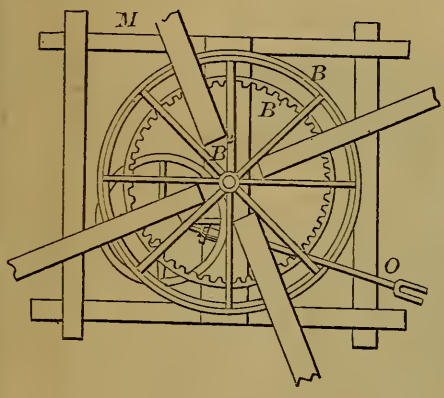
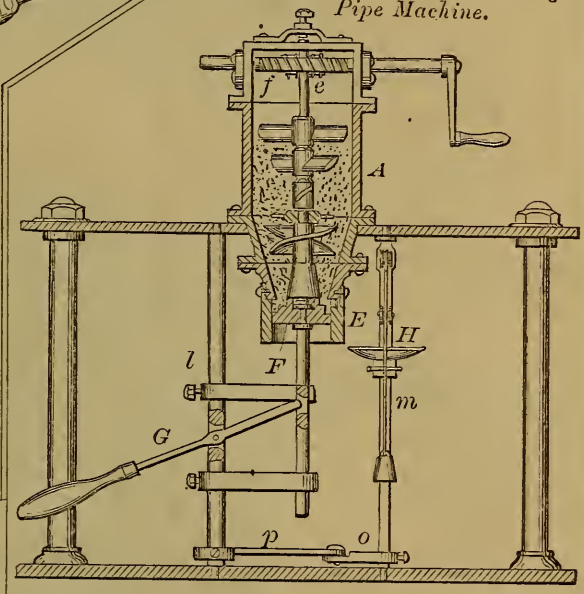


85487—B. W. Steschult—*Dropper for Harvesters.*



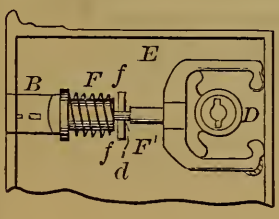


85490—Stotz & Smith—*Clay Pipe Machine.*

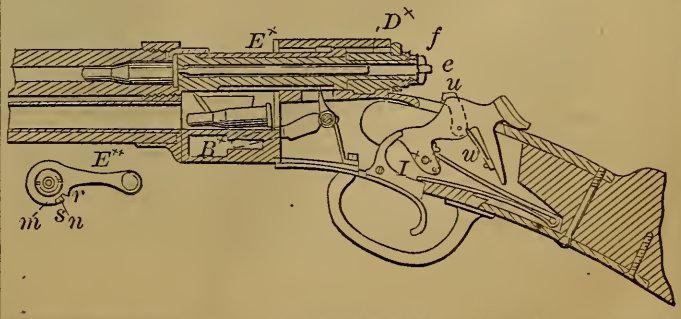


85495—Want & Lundgren—*Spectacle Bows.*

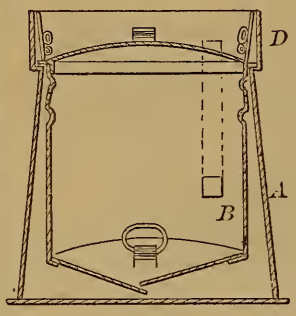
85497—E. Whitney—*Reversible Latch.*



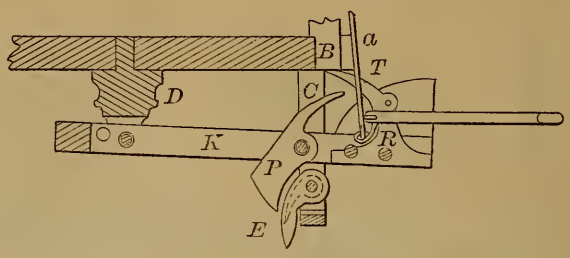
85494—F. Vetterlin—*Fire Arm.*



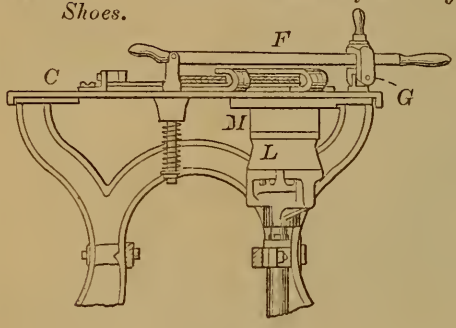
85483—I. D. Seeley—*Wash Boiler.*

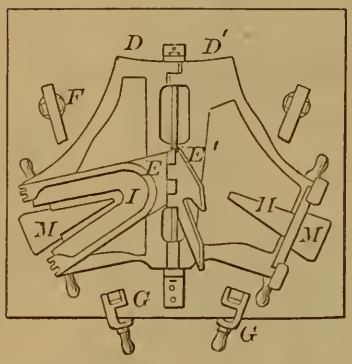


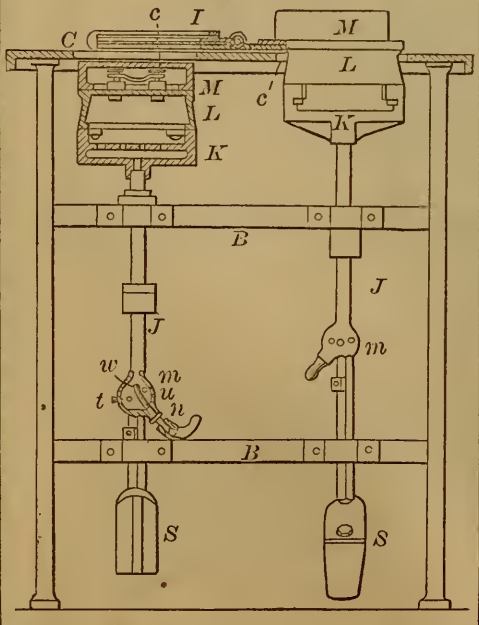
85489—O. S. St. John—*Car Coupling.*



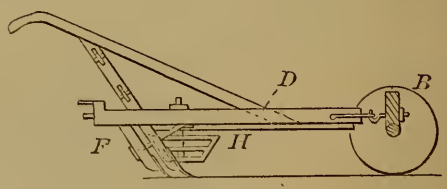
85492—J. C. Touzet—*For Manufacturing Shoes.*



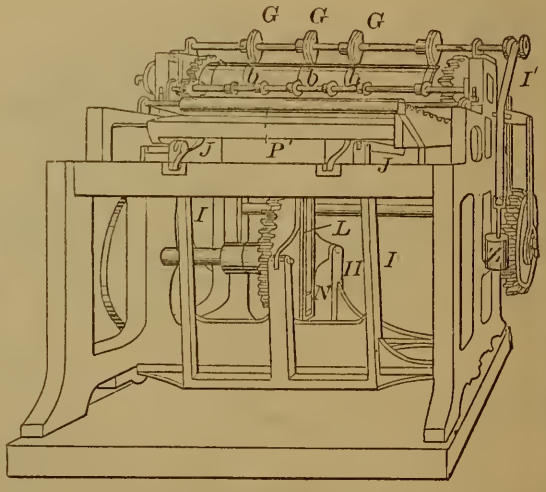


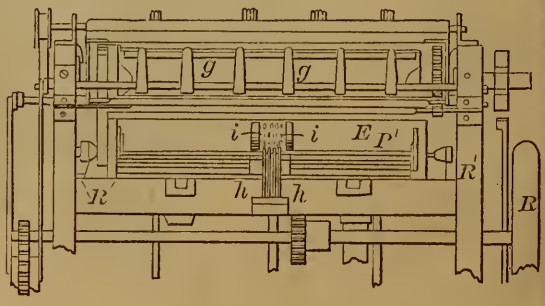


85488—W. L. Stewart—*Cultivator.*

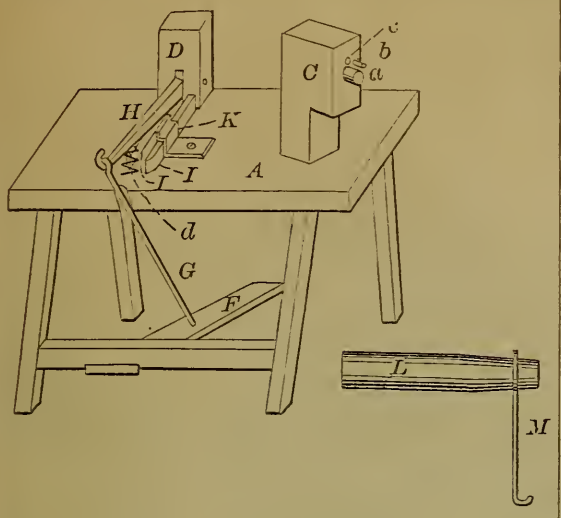


85493—S. D. Tucker—*Printing Press.*

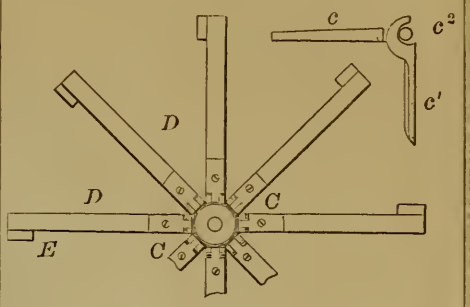




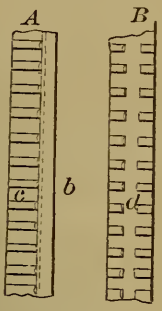
85498—R. S. Willard—*For Making Wire Hooks.*



85499—D. Witt—*Clothes Dryer.*



85502—E. C. Wooster—*Ruffled Trimming.*



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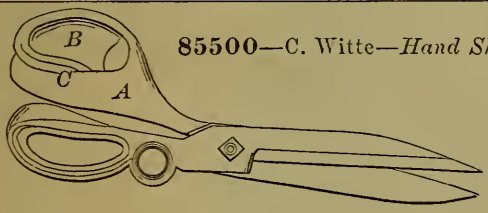
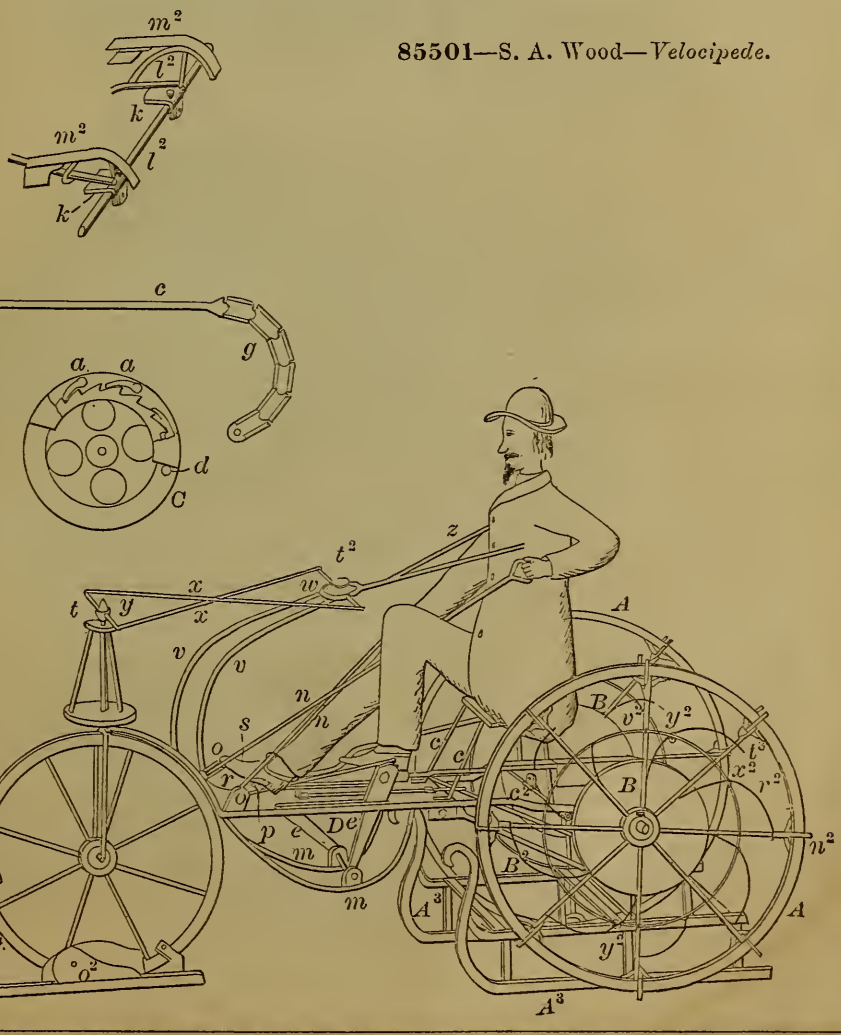


85501—S. A. Wood—*Velocipede.*



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